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SEATTLE SEED COMPANY'S

'48 Garden Annual

SEATTLE SEED CO. • 1514 Second Ave. • SEATTLE 1, WASH.
Everything for the Garden

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Down-to-earth help for garden planners

This seed catalog, we're proud to say, sets a new high record for helpfulness. We believe it contains more real, solid gardening data than any seed catalog we've ever read.

As you'll see, we have crammed this book with **FACTS**. We've set down here, as far as is humanly possible, the practical answers to the hundreds of questions that every seedsman is asked, every year.

Whether you are an experienced gardener or a beginner, we're sure you'll find much that is helpful in these pages—now and later on. We suggest, then, that you can begin using this book the very day you receive it. Use it first as a guide for your planning—and later, as a guide for more effective action all through the season.



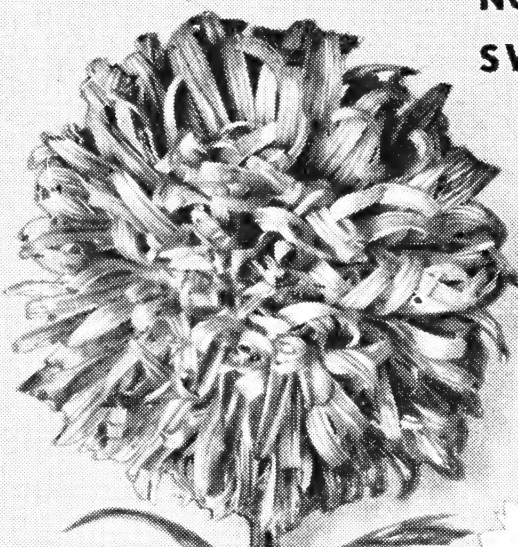
Please note that our seed listings, in all departments are held down to sensible limits. We have selected, with great care, the varieties that we consider most suitable for our area—and we've stopped right there. You may see other catalogs with more voluminous lists, but you won't find any more conscientious selections than ours.

Because of rapidly changing market conditions we must remind you that

**ALL PRICES
IN THIS CATALOG
ARE SUBJECT TO CHANGE
WITHOUT NOTICE**

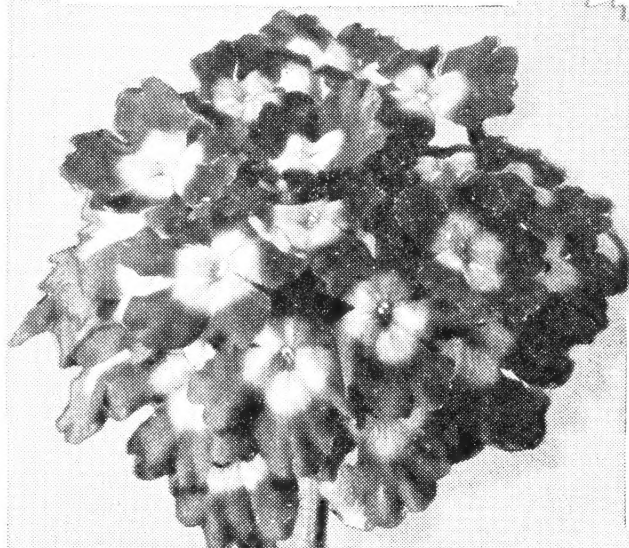
Again IT'S FLOWERS!

**NOW THE GARDEN PENDULUM
SWINGS BACK TO BEAUTY**



BACHELORS BUTTON, Jubilee Gem (below)—Another All-America winner. Finest of all Bachelor's Buttons for borders or beds. Deep blue, all double. Pkt. 15c.

ASTER, El Monte—A bright crimson Super-Giant Aster. All-American Bronze Medal winner. Striking in garden or for bouquets. Packet 20c.



ZINNIA, Stardust (below)—A Golden Yellow Fantasy that belongs in every garden. Excellent cut flower. All-American. Med. size dbl. flowers. Pkt. 15c.

VERBENA, Lavender Glory—Huge blossoms, true lavender color with creamy-white eyes. All-America award. Distinctly lovely fragrance. Packet 15c.



COSMOS, Sensation—An All-America Silver Medal winner. These huge pink or white flowers will blossom within 10 weeks from seed. Packet 15c.

NON-WARRANTY CLAUSE—Success with seeds, bulbs, etc., depends largely on weather conditions and proper cultivation, so in accordance with the universal custom of the seed trade we give no warranty, express or implied, as to the productivity of any seeds, bulbs or plants we sell and will not be in any way responsible for the crop. Our liability is limited to the purchase price of the seed, bulbs or plants.

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Hello NEIGHBOR!



Here's a Spring greeting from **YOUR Seed Store**

... a neighborly, friendly and informative message from a seedsman who lives, works, and gardens right in your own home territory.

We are proud to present this book as a message from neighbor to neighbor! We're sure you will find it extremely valuable. But before you plunge into its fascinating pages, we want to say this:

Our job, as we see it, is **to serve the gardeners and growers of our own area**, above all. We work, always, with the needs of our own neighbors' gardens in mind. We know, from experience, exactly what these local needs are. And we choose our stocks carefully and conscientiously to suit these needs.

May we suggest, then, that it is far wiser for gardeners of this area to shop here, rather than to look afar for their garden seeds and supplies?

So—here's to your success! And may we see you soon ... and often!

SEATTLE SEED CO.

1514 SECOND AVE., SEATTLE 1, WASHINGTON

TELEPHONE: SE 2338

We offer a complete year-round, local garden service

There's a year-round working partnership between us and our gardening customers. They like to shop here, because they know that, whatever the season, we're always ready to counsel with them and to supply all their garden needs.

We offer only good, fresh seeds, packet or bulk

We get along so well with our gardening friends because they know we do everything in our power to bring them the best of seeds, always! A packet or a ton, for home gardener or professional grower, it's always the finest we can procure.

We offer a complete supply service for all gardeners

One excellent reason why you **NEED** the services of a store like ours is the **COMPLETENESS** of our service.

As seed professionals, we know what you'll need at every step of the way. That's why it's so satisfying to shop here for garden supplies.

We offer cheerful and expert garden counsel

Our practical knowledge of gardening is part of our stock in trade. We want all your gardening efforts to be successful, and we try to do all we can to make them so. As "Garden Headquarters" we feel that's part of our job! Come in and talk it over!

LAWN BUILDING . . . HOW? WHEN? WHERE?

Consider Your Soil

In the garden, each spring brings a new chance to add humus or to otherwise improve the tilth of your soil. Once a good sod has been built up, however, the only way you can change the soil under it is by feeding the grass itself. That is why it pays to build up the soil before you begin. Organic matter must be added before work begins. Well-rotted compost, old manure, peat moss, sifted compost and leaf mold are all good forms that will help produce a deep-rooted healthy turf. Note that these must be old and well-rotted—fresh organic matter can damage young grass by rotting and releasing gases in the soil, and by encouraging disease. Spread a layer of organic matter from one to three inches deep over the entire area. Over this, apply 25 to 30 pounds of good mixed fertilizer for every 1,000 square feet, and turn under both organic matter and fertilizer. Grass roots do not go deep on soils with good drainage. There is no need to dig much deeper than five inches. The mixed fertilizer will give the grasses a good start and the humus will help hold moisture, and by slow decay, release small amounts of plant food for years.

Final Soil Preparation

After digging, level the surface with a rake. For large areas, a drag made by tying ropes to both ends of a ladder or heavy timber and dragging this sideways will help cut off the humps and fill the low spots. When as level as possible, divide the seed into two lots. Try to sow on as still a day as possible. Sow one lot of seed with the breeze and the other against. This

will spread the seed more evenly, so that each square foot of lawn will have enough, but not too much seed.

Seeding

A common mistake is to sow too thickly. Grass seedlings will not grow when crowded any more than will seedlings of cabbage or lettuce. At the same time, enough seed should be used to cover the entire area without bare spots. Half a pound of mixed seed to 100 square feet or five pounds to 1,000 square feet is safe for most mixtures, and good lawns can be made with as little as 3 pounds to 1,000 feet if conditions are right.

After sowing, rake the lawn again. Don't keep pulling the rake one way, which will roll over the coarse particles and bury the seed too deeply. Instead, work it back and forth with short strokes, barely coating the seed with dust and soil.

Water with a fine spray as soon as the seed is sown. This is the only time in the life of a lawn that it should be sprinkled or sprayed. At all other times, give it a good soaking whenever watering is needed, but for this first wetting, we want to settle the soil gently around the seed and moisten it enough to start germinating. If the normal soil moisture is enough to keep the lawn just slightly damp, try not to water again until the soil has germinated, but do not let it get dry at any time.

Once the green seedlings are showing over the entire lawn and there is little danger of washing out the soil, water thoroughly if rain does not fall. The first seedlings to show will be the nurse grass, and probably not the grasses that will form the permanent lawn.



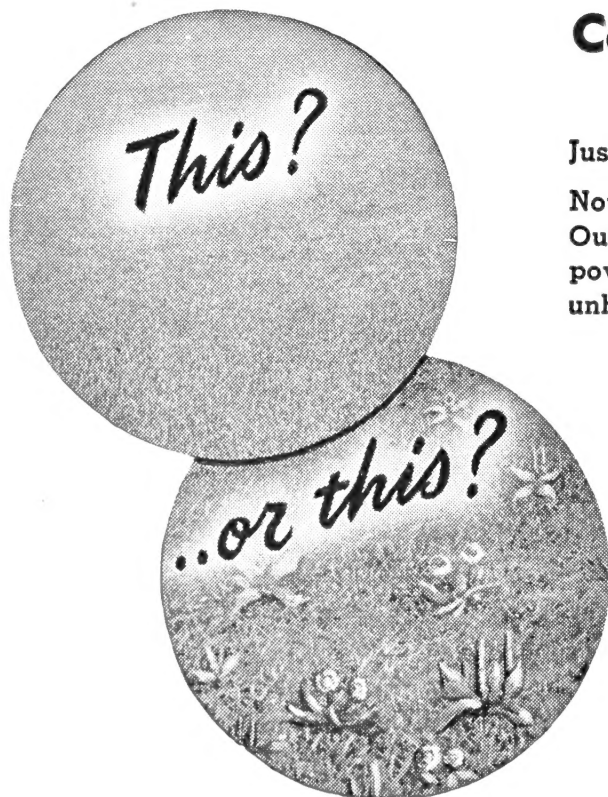
Mowing

Don't mow the lawn until it is about three inches high. Then set the mower for a 1½ inch cut (adjust the roller until there is 1½ inches between the bedknife and the floor on which the mower stands). Don't mow a new lawn closer than this—the grass needs this much leaf area if it is to build up strength enough to stool out and form a permanent turf that will survive the coming winter.

Reseeding Bald Spots

Sometimes thin spots will remain in the lawn, particularly if conditions are unfavorable for the permanent grasses. These can be seeded with Italian ryegrass, which will germinate in hot weather, when good grasses will not. With the return of cooler weather in fall, these temporary patches can be raked out and the regular mixture seeded.

To remake established lawns that are in poor shape, rake the thin spots as early in spring as possible, apply 25 pounds of good general fertilizer to every 1,000 square feet, and sow one pound of a good mixture to every 400 to 500 square feet. Rake in the seed and sprinkle. From this point on, treat as a new lawn.



Complete LAWN WEED CONTROL . . . at your command

Just a few short years ago, weed-free lawns were a rarity.

Now, almost overnight, weed control has become easy, almost automatic. Out of the laboratories have come new chemicals with the miraculous power to kill the common lawn weeds while leaving the turf itself unharmed.

Today, weeds in the home lawn are completely unnecessary and out-of-date . . . in fact, they may well be classified as just "bad housekeeping."

We are a bit proud of our own part in this modern lawn revolution. Ever since the new weed control chemicals began to appear, we've been prescribing and providing them for the lawns of our area. We know them thoroughly. We can tell you exactly which controls to use—and when. And we have them in stock.

Please be sure, then, to look up the weed killers described later on in this book. And if you have any questions about them, be sure to consult us.



DEPENDABLE LAWN SEEDS

4 - W A Y SERVICE for your lawn

1—The right seed

The "better lawns" we sell here get their start with the right seed . . . seed carefully selected for the growing conditions of this territory—and for the particular needs of your own lawn.

2—The right foods

Whatever the feeding problems of your lawn, we have the right plant foods for it. All-purpose lawn foods or special fertilizers for special conditions—they're all here for you, in any amount you need.

3—Tested weed controls

The weeds in your lawn will be fighting a losing battle if you let us furnish your ammunition. We have the full range of weed controls to choose from—and can show you how to vanquish lawn weeds easily and surely.

4—Complete lawn know-how

Last, but perhaps most important of all, our 4-way lawn service includes competent advice whenever you want it—advice based on thorough knowledge of the lawn problems of this particular territory. We have the necessary know-how—and it's at your command!

Astoria Bent

Produces numerous root stocks which spread underground and throw up new shoots, making a very thick turf. This Bent has a good color and is excellent for lawns and putting greens. Does not require as much cutting as Creeping Bent.

Seaside Bent

A true creeping Bent. The plant is dwarf, and multiplies rapidly by sending out runners in all directions. With proper watering and care, it makes a strong, enduring turf. If damaged it heals over promptly.

Chewings Fescue

A superb grass to grow in rather shaded areas and even on fairly acid soil and under other unfavorable conditions. Plants grow low, make a dense turf. Often used for putting greens and fairways.

White Dutch Clover

Although not a grass, White Clover is very desirable in lawn mixtures because of its rapid, low growth and creeping stems. Valuable as a green cover for poor ground. Succeeds best on moist ground or during wet season.

Kentucky Blue Grass

Produces a deep dark green lawn of

close, thick turf. Maintains its green color until late in fall. Roots are deep, and plants are very hardy. Makes one of the best lawns.

Domestic Rye Grass

A quick-growing annual, valuable in lawn mixtures as a nurse crop, to keep lawn green while better, slow-growing varieties are becoming established. Succeeds well on almost any soil.

Perennial Rye Grass

A quick growing grass, most suitable for mixtures. Succeeds well on almost any soil not water sogged.

Red Top

Particularly suitable for wet, low spots, as it stands wet weather, or even overflowing, better than other grasses. Also does well on almost any good, rich soil. Often thrives where blue grass fails—and therefore makes an excellent supplement for it.

Other Grasses

Besides the lawn grasses listed here, we can also supply just about any other grasses you may need. We carry a complete line of all varieties that can be successfully grown in this part of the country. Just tell us what you want!

LAWN SEEDS

SEATTLE'S BEST—For finest lawn obtainable. Composed of four of the best fine-bladed grasses.

\$1.50 lb. 10 lbs. and up \$1.40 lb.

SUPERB—A mixture of Blue Grass, Chewings Fescue and Creeping Bent. Pleasing lawn that will stand wear.

\$1.25 lb. 10 lbs. and up, \$1.15 lb.

PARKWAY—A mixture of sturdy grasses well suited to use in parkways and playfields.

\$1.00 lb. 10 lbs. and up, 90c lb.

MAGIC—A well-balanced mixture particularly good for this section.

75c lb. 10 lbs and up, 65c lb.

See us for all your lawn and pasture seed requirements.



**100 %
ORGANIC
Plant Food**

Produced and
processed in
Washington

A special dehydrating and
pulverizing process.

NOW MAKES

Pure Chicken Manure

AVAILABLE

WITHOUT ANY FOREIGN MATTER
Contains All Known Fertilizing Elements

No Weeds—Will Not Burn



THE

**PERFECT PLANT FOOD
FOR LAWNS OR GARDENS**

TUBEROUS BEGONIAS

Great care has been used in the selection of our Begonia tubers. Only the strongest have been chosen . . . tubers that are sure to produce the largest, most beautiful plants and blossoms.

Begonia tubers are available in February through May. They should be planted early indoors in pots or flats. Use leaf mold or peat moss for ideal humus medium. When there is no longer danger of frost, move the tubers to the open garden. Here they should be protected from the hot sun and watered often and regularly.

Order early! The demand is heavy . . .
delay might mean disappointment.



SINGLE FRILLED BEGONIA

Large single flowers with petals beautifully ruffled and frilled. Available in orange, salmon, scarlet and white. Colors are bright and the foliage very fine.

HANGING BASKET-TYPE BEGONIA

Plant several of these tubers in an eight or ten inch hanging basket or pot. We suggest that you plant the tubers in a mixture of one-third each of well-rotted manure, leaf mold (or

peat moss) and sandy loam. This type of Begonia is available in scarlet, rose and white.

DOUBLE CAMILLIA BEGONIA

Large double flowers of exquisite form and beautiful color. Available in white, yellow, salmon, apricot, orange-scarlet, rose-red, salmon-rose and rose-pink. Be sure to indicate your color preference when ordering.

CARNATION TYPE BEGONIA

Include this beauty in your collection. Flowers are lacinated and resemble a mammoth carnation. Available in scarlet, rose, pink, salmon, yellow and white.

FASCINATION FRILLED BEGONIA

Bright yellow stamens surrounded by a creamy-white field and bright pink ruffles make this a most outstanding blossom.

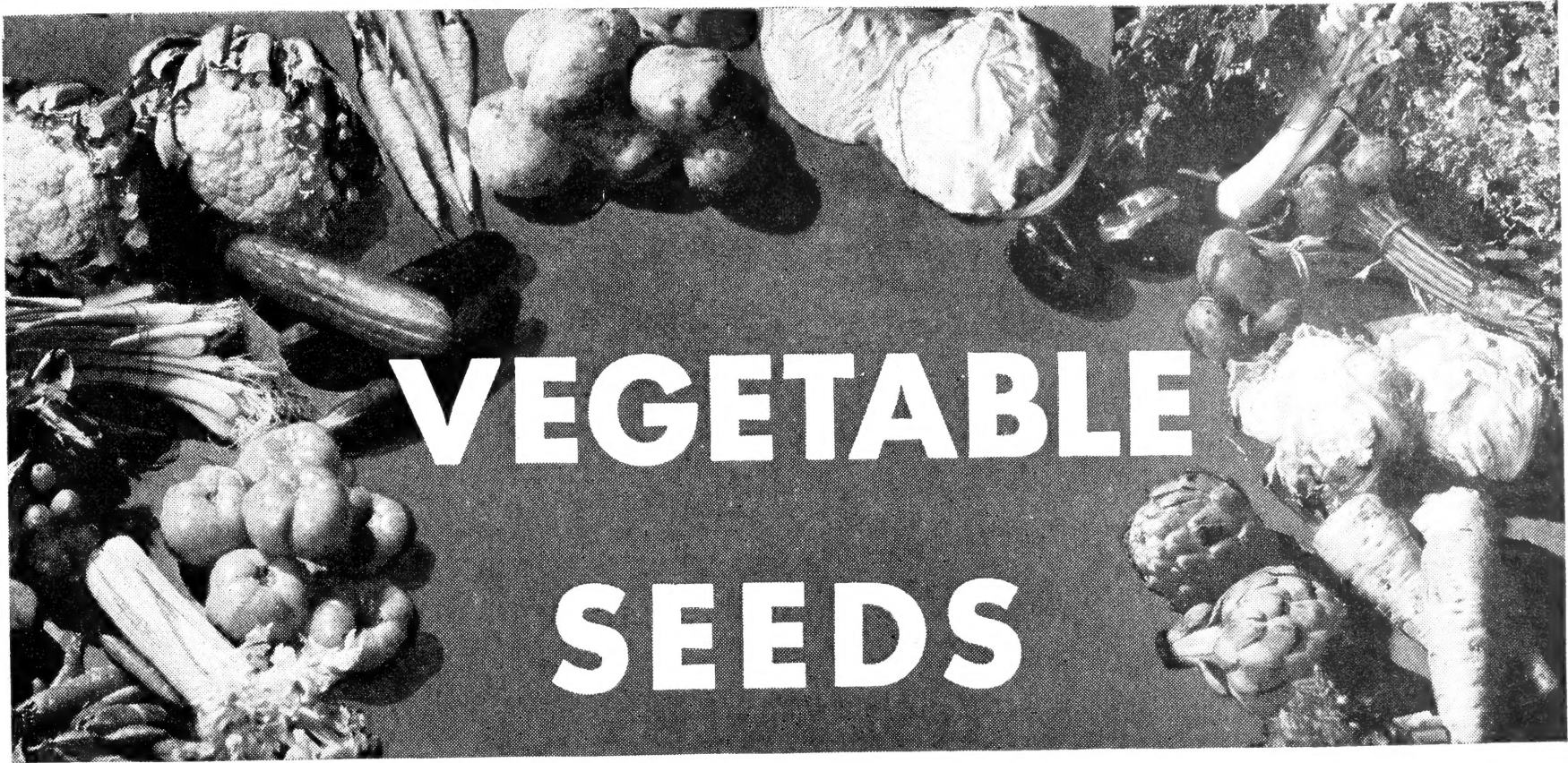
1948 BULK VEGETABLE SEED PRICE LIST

All prices subject to change without notice and stocks on hand.

	1 oz.	1/4 lb.	1/2 lb.	1 lb.
BEANS—all varieties		\$.15	\$.25	\$.45
BEETS & SWISS CHARD	\$.20	.60		1.75
CABBAGE—all varieties . . . . .	.50	1.50		4.50
CARROTS . . . . .	.20	.65		2.00
CORN—open pollinated . . . . .			.20	.35
CORN—hybrids, all varieties . . . . .		.15	.25	.50
CUCUMBER . . . . .	.20	.65		2.00
KALE . . . . .	.20	.65		2.00
LETTUCE—all varieties . . . . .	.25	.75		2.50
MANGEL . . . . .	.20	.60		1.50
MUSTARD . . . . .	.20	.60		1.50
ONIONS—all varieties . . . . .	.50	1.65		5.00
PARSNIP . . . . .	.20	.60		1.50
PUMPKIN . . . . .	.20	.60		1.50
RADISH . . . . .	.20	.60		1.50
RUTABAGA . . . . .	.20	.60		1.50
SPINACH . . . . .	.20	.60		1.50
SQUASH—all varieties . . . . .	.20	.65		2.00
TOMATO—all varieties . . . . .	.65	2.00		2.00
TURNIP . . . . .	.20	.55		1.25

We Have Many Vegetable Seed Varieties Not Listed Here

You will find, listed on the pages of this catalog, a wide variety of seeds. We have made the listing as complete as possible, but it does not show our entire line . . . this would be impossible within the confines of any one catalog. For instance, our stocks include many varieties of which we handle small or seasonal lots. These varieties, though not listed in the catalog, may be just what you are looking for. Please contact us if this listing does not include all of your seed requirements.



VEGETABLE SEEDS

... selected for RESULTS in your garden

From among all the thousands of available varieties, we have selected those which will produce the best quality and the greatest yields in the gardens of our territory. So we offer you this compact selection as a safe, sound base for your plans.

VEGETABLES FOR FREEZING

The symbols (fr) following the variety names indicates vegetables suitable for home freezing.

ASPARAGUS

A hardy perennial; will bear over 20-year period if properly cared for. We recommend purchase of ASPARAGUS ROOTS rather than seeds, as roots produce crop 2 years earlier. If seed is used, sow thinly in drills in early Spring. Cover to 1/2" depth. Thin plants to 6 inches apart and when a year old transplant to heavily enriched beds. 1 Ounce will sow 60' of drill.

Mary Washington (fr)—Thick, tall green spears with purple tops. Highly rust resistant. Rapid growing. Tender.

BEANS

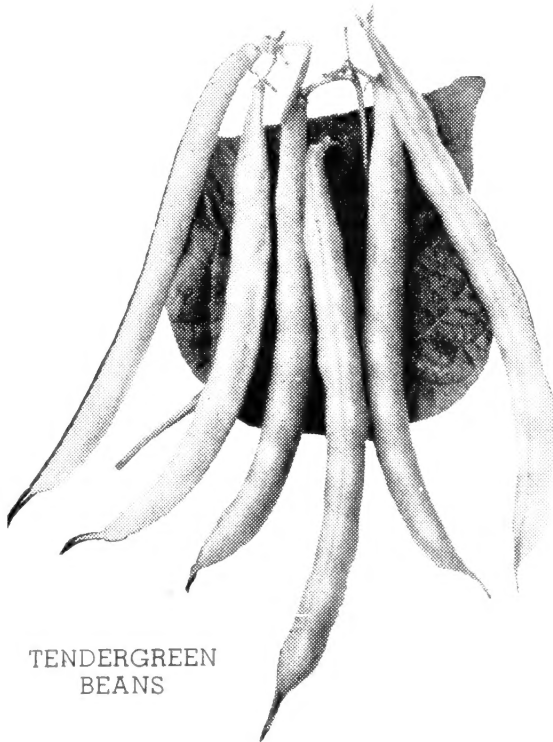
Green Podded, Dwarf or Bush

Sow in rows 2 1/2' to 3 1/2' apart. Plant seed 1 1/2" to 2" deep and 3 to 4" apart. Do not plant until danger of frost is past. Press soil firmly around seeds. Thin young plants to about 6" apart. Keep cultivated until plants blossom. (DO NOT CULTIVATE when blossoms are at prime or when plants are wet with dew. Keep vines picked to insure a longer bearing period.) Make plantings every two weeks for supplies throughout the season.

Bountiful (fr)—An early, heavy-yielding variety. The leading flat podded bean for market and home use. Flat, light-green, stringless, but slightly fibrous pods of finest quality. 47 days.

Burpee's Stringless Green Pod (fr)—Large, sturdy plants. Meaty, round pods, brittle and strictly stringless at all stages. Medium green pods, oval, yellowish-brown seed. 54 days.

Dwarf Horticultural (Speckled Cranberry)—Snap bean; also used for green shelled beans, edible in 62 days. Plant medium in height and prolific. Pods



TENDERGREEN BEANS

green at early stage, speckled with carmine at maturity. 54 days.

Tendergreen (fr)—Large, erect plants. Abundant, round, dark-green pods, strictly stringless and fleshy. 54 days.

Wax Podded, Dwarf or Bush

Improved Golden Wax (fr)—Small, erect plants, moderately productive. Straight, thick, flat pods, creamy yellow and stringless. 51 days.

Pencil Pod Black Wax (fr)—A leading wax variety for home and market gardens. Stocky, large, strongly productive plants. Pods, golden yellow, tender, entirely stringless, brittle and of fine quality. 55 days.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED

In bulk at money-saving prices.
Special quotations to market gardeners.
Prices subject to change without notice.

SPECIAL VEGETABLE VARIETIES

added for your enjoyment

POTOMAC POLE BEANS—Dark green pods, 6 in. long, slender, round, meaty, tender, stringless. Good climbers, heavy producers. 70 days.

DECATUR POLE BEANS—Round, dark green pods, stringless, 6-8 in. long. Resistant to mosaic and common rust. 68 days.

KEYSTONIAN GREEN POD BUSH BEANS—Snap bean of excellent flavor. Stringless, round, meaty, long pods. Long bearing. 52 days.

MASON'S GOLDEN MIDGET SWEET CORN—Butter yellow sweet corn. Grows 3 ft. high with two to four ears. 64 days.

HYBRID EARLY GOLD SWEET CORN—Delicious yellow corn of 12 rows. Large ears. Fine freezing variety. 74 days.

SPANCROSS HYBRID SWEET CORN—Ears are 6 1/2 in. long, slightly tapered, well filled to tip with golden yellow kernels. Plants grow 4 to 5 ft. high with ears set low on stalk. 75 days.

BUTTERNUT SQUASH—Winter variety. 10 to 12 in. long, 4 to 5 in. diameter. Bottle shaped, smooth dark buff skin, hard shell. Flesh is orange, dry, sweet, fine textured and of excellent flavor. 85 days.

BEANS, Continued

Beans, Pole

In warm ground, set poles 4' to 8' long slanting a bit to the north in rows 4' apart. (Extending north and south the poles will be 3' apart in the row.) Plant 5 to 8 beans about 1" deep around each pole. When growth is sufficient thin to the four strongest plants.

Caution: To avoid spreading plant diseases, do not cultivate or pick when plants are wet.

Blue Lake or White Creaseback—Widely used for processing. Round pods, medium green, stringless when young—and good canning qualities. 64 days.

Horticultural Pole (Cranberry)—A well known producer. Pods 6 inches long, straight, dark green at snap stage—yellowish and speckled with red at green shell stage. Dried beans excellent for Winter use. 70 days.

Kentucky Wonder (fr)—Strong climber, hardy, long-bearing. Curved, almost round pods. Slightly stringy, but brittle and fibreless. Meaty. 65 days.

Kentucky Wonder Wax (fr)—Very popular. Vigorous, good climbing plants, waxy-yellow pods, flat and nearly stringless. Somewhat fibrous but meaty. 68 days.

Oregon Giant—Large prolific plants, good climbers. Pods are thick-oval, always stringless, and very meaty. 71 days.

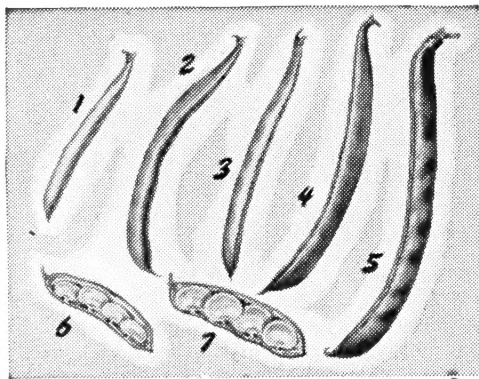
Potomac (fr)—An All-America variety. Vigorous better climbing, stringless type. Resistant to common bean Mosaic and some forms of rust. Pods straight, dark green, practically round. 66 days.

Scarlet Runner—Large plant growth. Often planted for its brilliant scarlet flowers. Pods broad, oval and meaty. Used for snap and green shell beans. 90 days.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED



Almost everybody likes beans. And even those who don't care too much for them would change their minds if they could eat them at their best—young, tender pods cooked a few hours after they're picked. Beans are the most adaptable crop we have. You can always squeeze in a crop if you have sixty days of growing weather before frost. The plants can be kept producing over a long period, if you'll pick them clean. You'll



Lima, Dwarf or Bush

Plant in dry, warm ground. Make rows 2' apart and drop beans 6" apart in row. Cover with 1" of soil. Can also be planted in hills, 3' apart one way and 2' apart the other way. Use 4 to 6 beans per hill.

Burpee's Improved Bush (fr)—Best of flat seeded bush limas. Pods contain four or five large beans of excellent quality. 75 days. Pkt. 15c.

Cangreen Bush (fr)—A new, small bush lima. A strong grower and prolific. Seeds slightly larger than Henderson type. 65 days.

Lima, Pole

Follow same plan as for other pole beans but plant seed two weeks later.

Oregon Pole—Excellent pole bean, early enough to mature in Northern climate. Large broad pods. Beans, white. Delicious quality used green, shelled or dry. 70 days.

BEETS

Deep, rich sandy loam produces finest beets. As soon as ground can be worked sow in drills 18" apart and press soil firmly over seed. When tops are 3" to 6" tall pull them and use for cooked greens. Continue this until roots stand 6" apart. Plant every 10 days or so.

Crosby's Egyptian (fr)—Widely grown for early beets. Flattened globe shaped roots with small tap root. Excellent quality, tender and sweet. 60 days.

Detroit Dark Red (fr)—Standard of excellence in table beets. Smooth, globular roots of deep ox-blood red—sweet and tender. 68 days.

Early Wonder—Early variety. Semi-globular, tender, blood-red. 58 days.

Extra Early Flat Egyptian—The very earliest, with small tops and roots distinctly flat and moderately thick, dark purplish red with light zoning. 55 days.

Klein Wanzleben (Sugar Beet)—Largely used for sugar manufacture because of high sugar content; also good for stock feeding. Roots long with thick tapered shoulders. Flesh solid white. 90 days.

The Old Gardener on BEANS

get more beans per square foot (and better beans) by starting a short row every two or three weeks. When you make these succession plantings, don't forget to plant a generous row for canning or freezing.

Don't neglect the lima beans. Even

those who have been growing the small-seeded types usually switch to the large seeded, once they've tasted a variety like Fordhook bush.

The beans illustrated here (to give you a comparison of sizes) are: 1—Improved Golden Wax; 2—Giant Stringless; 3—Tendergreen; 4—Bountiful; 5—Kentucky Wonder; 6—Henderson's Bush Lima and 7—Fordhook Bush Lima.

BEETS (Mangel Wurzel)

Sow seeds in early fall and spring in rows 2½' to 3' apart. Later thin to 10" apart.

Danish Sludstrup—A very high yielding variety. Grows well above the ground—easy to pull. Flesh is white, tinged with faint yellow. 110 days.

Giant Half Sugar, Rose—A good variety for feeding. Heavy yielding. Roots long and oval shaped. Skin white with rose colored shoulder, flesh white. 90 days.

SWISS CHARD

Requires about same treatment as beets. Cultivate frequently. Leaves may be gathered during summer and fall. New ones will grow quickly.

Lucullus—Most popular Chard. Upright in growth, with yellowish-green curled, crumpled leaves. Thick, broad and light green stems. 50 to 60 days.

Rhubarb Chard—Heavily crumpled leaves, dark green with a translucent crimson stalk. Easily grown, everywhere. A different, tasty, delicious flavor—cook stalks and leaves together for a new taste thrill. 60 days.

BROCCOLI

Plant and cultivate like cabbage and cauliflower.

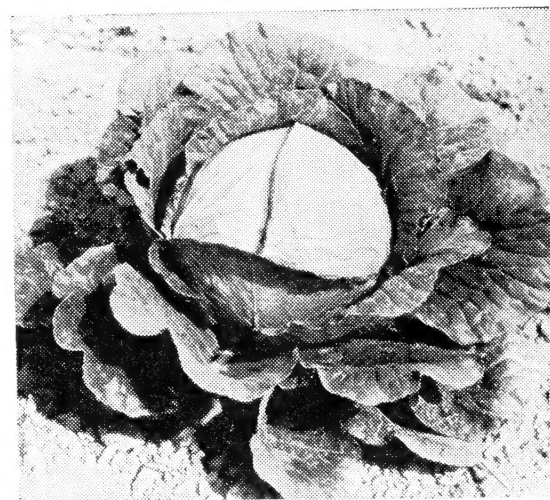
Italian Green Sprouting (fr)—Plant bears a succession of sprouting heads about 5-in. long, which, if kept cut, will be replaced by others for 8 to 10 weeks. 55 to 65 days.

St. Valentine—Large headed variety—excellent quality. Good shipper. Heads solid white and well protected. 90 days.

BRUSSELS SPROUTS

Easy to grow wherever conditions are favorable for late cabbage, and requires same culture. As sprouts begin to form remove lower leaves so that all nourishments sent to lower stem will be forced into the sprouts.

Dwarf Improved—Firm, thick-set tender heads. Easily grown. Early, dependable.



GOLDEN ACRE CABBAGE

CABBAGE

Sow seed in drills 6" apart across the bed, dropping the seed 5 to 6 to the inch. Firm soil after covering, then water thoroughly. Keep beds moist but not soaking wet. Seed germinates 3 to 8 days depending on temperature. Transplant to open ground when plants have made fourth pair of leaves. Set out as soon as frost danger is past. Use plenty of good commercial fertilizer. Cultivate frequently, every 5 or 6 days until cabbages are large. For winter storage, stand plants upright in cold cellar, with roots in sand. Slight freezing will not harm cabbage.

Continued on Page 10

HOW? WHEN? WHERE? WHY?

Practical answers to every-day questions about home gardening

Cut living costs! Grow your own food!

Now, more than ever before, YOU NEED A GARDEN!

With sky-high food prices, a garden is a better investment than ever! Back in the days when food prices were reasonable, a nation-wide survey showed that, *for every dollar spent on home gardens, the average return in vegetables was more than ten dollars.* Today, the ratio is far higher.

Think of the prices you'll have to pay this year, if you buy fresh vegetables in the markets! It's not a very pleasant thought, is it? But you can beat these high prices—by *growing your own!* And what's more, you'll have fun doing it. There's no more pleasant and healthful occupation than gardening!

So make your plans now for a thorough attack on high food prices! *Let your own garden provide what you need!*

DON'T expect your garden to grow itself—advance planning will cut down the amount of work needed, will make it more productive and will provide a constant flow of all the fresh vegetables you can eat.

How Much to Plant

Figure exactly the number of feet of row to plant. Consult the chart on page 20. Decide how many times during the harvest season you want to eat a certain crop, how much of that crop you ordinarily serve to your family, and plant accordingly. Thus, if you like beans, and if you want to serve them twice a week, 1 pound at a serving, note that a 50 foot row will produce about 20 pounds. Since beans produce freely for about three weeks, a 30 foot row should give you all the

snap beans your family cares to eat during that time. Why tend 50 feet of row when 30 will do?

DO plan to make succession seedings. Work your garden full time by planting a good summer garden that will produce until frost. And DO make provision for canning, for freezing and for storing.

Succession Seeding

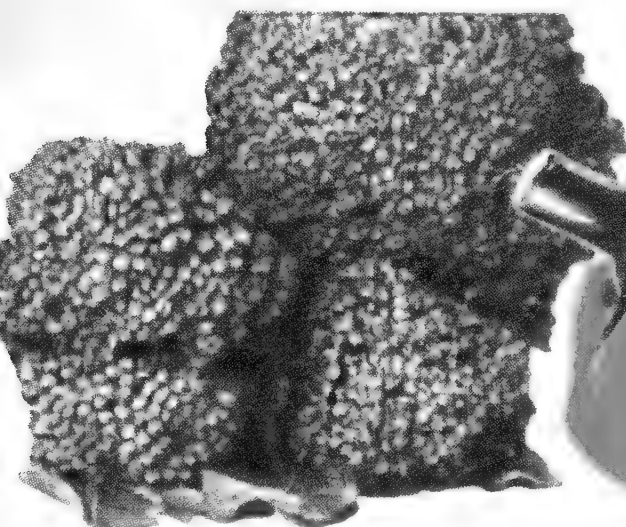
DON'T work more land than you need to. Conserve your energy by intercropping, catch cropping and succession cropping. In intercropping, short season crops are grown between slower growing plants (i.e., plant early lettuce between rows of tomato plants that won't need the space until after the lettuce is eaten). In catch crop-

ping, plant an early crop before the main crop is planted. In succession cropping the main crop comes first (i.e., snap beans to be followed by late turnips). In this way you make better use of space, cut down the number of rows to tend, and make better use of water and fertilizers.

In the smaller garden, concentrate on vegetables that lose quality most rapidly when shipped any distance—delicately flavored green beans, summer squash, early cabbage and leaf lettuce. Unless you have plenty of room, better leave late cabbage, dry onions, winter squash and potatoes to commercial gardeners.

Poor Soil

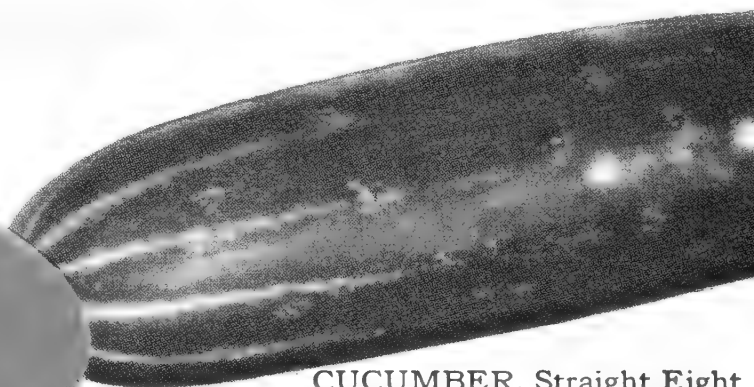
DON'T plant in water-logged or poorly-drained soil. If your garden doesn't drain readily, either find another plot or provide tile drainage. No soil will grow good root crops that dries out hard and compact. If the cost of conditioning such soil is too high, as in plots to be used only one year, omit carrots, beets, etc., and concentrate on leafy vegetables and those that produce above ground, such as tomatoes, peppers, etc. You can remake such soil by adding well-rotted organic matter. This may be old manure, spent mushroom manure, peat moss, rotted compost, etc. If coal ashes have weathered for at least a year, they will help break up clay also. So will an application of lime. On the other hand, light sands can also be improved by adding liberal amounts of organic matter.



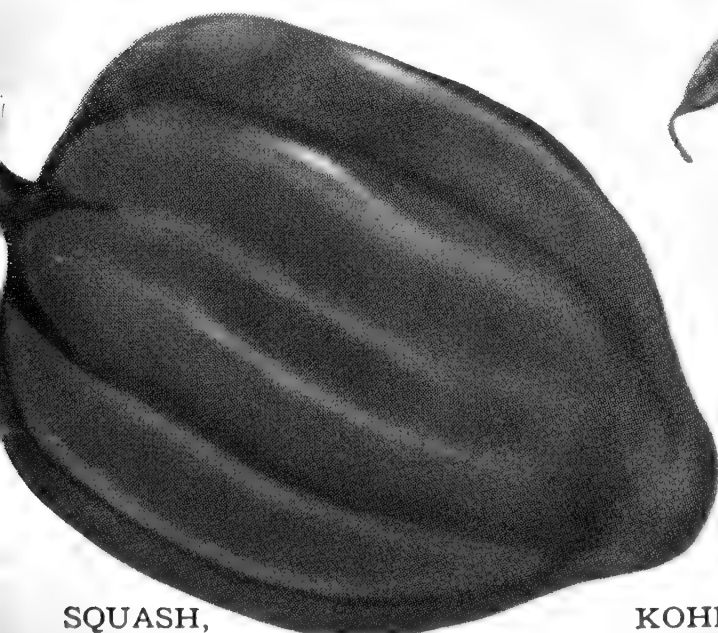
BROCCOLI, Italian
Green Sprouting



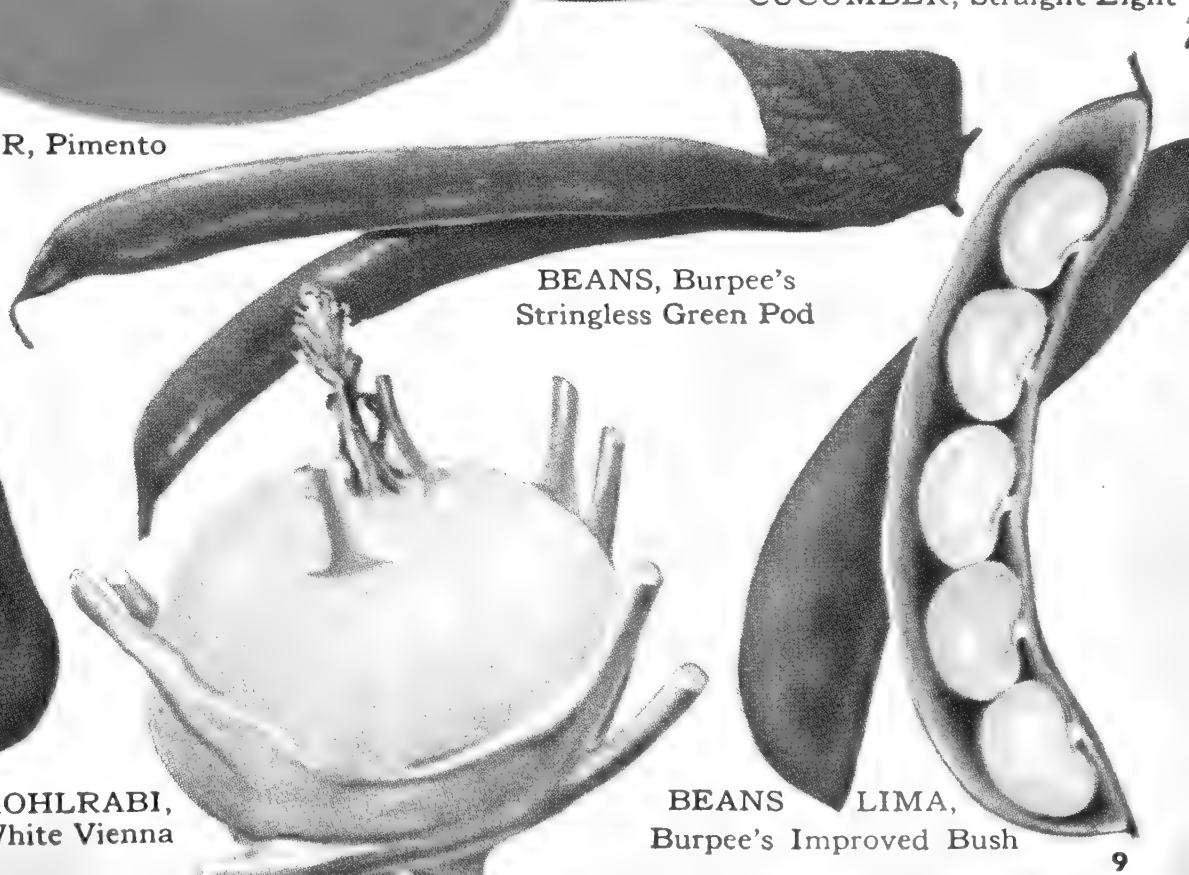
PEPPER, Pimento



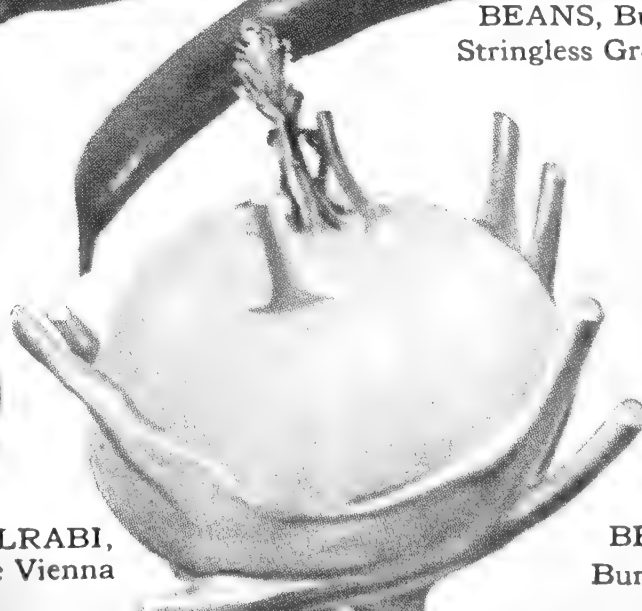
CUCUMBER, Straight Eight



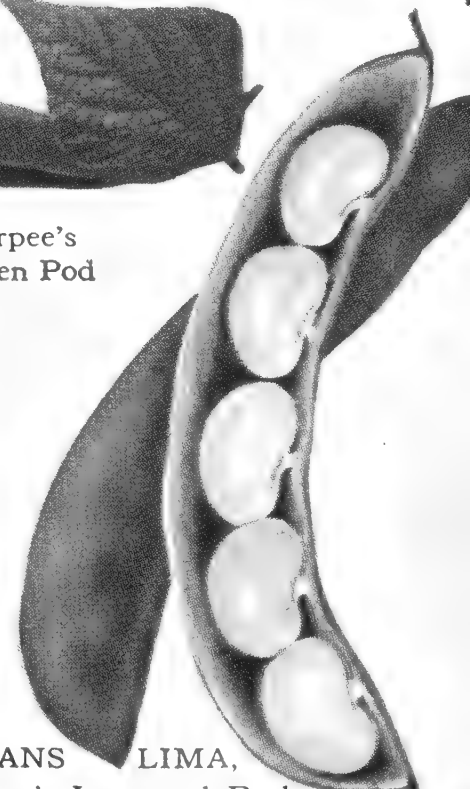
SQUASH,
Table Queen



BEANS, Burpee's
Stringless Green Pod



KOHLRABI,
White Vienna



BEANS LIMA,
Burpee's Improved Bush

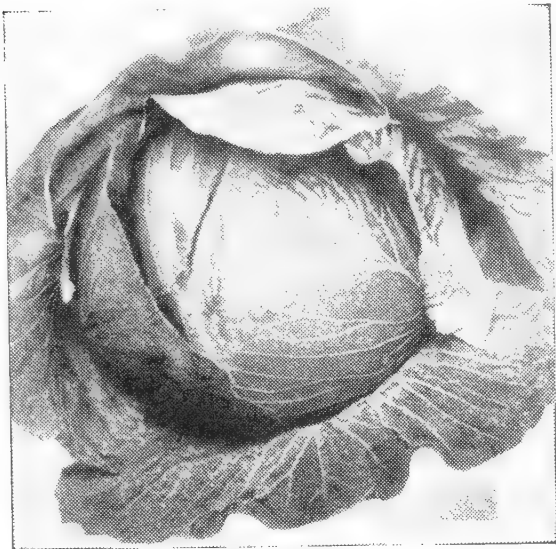
CABBAGE, Continued

Standard Early Varieties

Copenhagen Market—Excellent, early short season type. Short stems, 6½-in., 3½ to 4-lb. heads. 65 to 70 days.

Early Jersey Wakefield—Pointed heads, small and firm. Earliest pointed variety. Plants compact. 62 days.

Golden Acre—Extra early variety producing uniform well-balanced head. Weighs about 3 lbs. Excellent quality. 65 days.



EARLY DWARF FLAT DUTCH CABBAGE

Early Dwarf Flat Dutch—A compact, upright, short stemmed variety. Heads large for size of plant, somewhat flattened shape, very solid. Matures early. 71 days.

Late or Winter Varieties

Danish Ball Head or Hollander—A widely used late type. Deep, round, hard, compact heads, 7 to 8-in., 6 to 7-lb. Tender, crisp, fine for kraut. 100 to 105 days.

Late Flat Dutch—The best late variety. Large, round, flat solid heads of perfect shape. Less inclined to burst than many varieties. Tender; fine quality.

Savoy—Large, flat heads with dark green, crinkled leaves. Flavor is mild and appetizing. 6 to 7 lbs. 90 days.

Red Varieties

Mammoth Red Rock—Best of the red cabbages. Hard, round. Purplish-red heads. Good keeper, 6 to 8-in., 7 to 8-lb. heads. 100 days.

CHINESE CABBAGE

An easily raised succession crop. Set out in rows which have been occupied by earlier vegetables.

Wong Boc—A short stout oval variety. Compact and well balanced. 85 days.

CARROTS

Use sandy loam enriched by manure the previous year, if possible; but any good land if deeply and well worked will produce a good crop. Sow seed as early as ground can be worked. Sow seed ½" to 1" deep in drills 16" to 18" apart. Press soil firmly above seed. When plants appear use cultivator or wheel hoe and thin from 2" to 6" apart, according to type. Keep cultivated.

Chantenay, Red Cored (fr)—Root has thick shoulder and tapers to slight stump root, 5-in. long. Red cored. 70 days.

Danvers Half Long—Sweet, tender roots, 6 to 7-in. long tapering to a blunt point. Fine for storing. 75 days.

Improved Emperor (fr)—Fine-grained, tender. Rich orange, indistinct core. Roots smooth, tapered to semi-blunt. 77 days.

Nantes Improved Coreless (fr)—Excellent for forcing. Tops small, roots bright orange, blunt ended. Flesh reddish orange and practically coreless. 70 days.

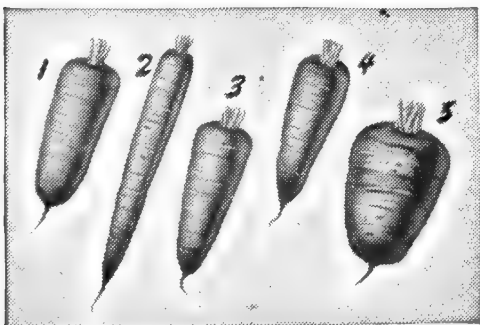
Oxheart or Guerande—Excellent for shallow soil, easy to harvest. Chunky, tender and sweet. Bright orange. Keeps well. 72 to 75 days.

White Belgian (Stock Carrot)—Grown exclusively for stock. Skin green above ground, white below. Flesh white with tinge of flesh color. 95 days.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED

The Old Gardener on CARROTS

Carrots are a triple-treat crop—you can freeze them, store them or can them, in addition to serving them fresh. All three methods will save the delicious carrot sweetness for winter eating. Better have plenty for eating fresh, too, especially the finger-size thinnings from the row. Commercial growers throw these away but they're the choicest morsels the garden produces. The new coreless types are best for eating fresh, canning or freezing. They have less fibre, taste sweeter.



If you must store carrots in a cellar or outdoor barrel, you'll want something a little firmer, like Danvers Half Long. If your soil is stiff, stubborn clay, use Oxheart, which grows straight, while the longer kinds will "dogleg" or corkscrew as they try to grow in clay. The carrots illustrated here, for comparison of actual sizes, are: 1—Chantenay; 2—Imperator; 3—Danvers Half Long; 4—Red Cored Chantenay; 5—Oxheart.



CAULIFLOWER

Packet, 25c

Needs rich soil and abundant watering. Cultivate same as cabbage but protect heads from sunlight to insure the prized white curd. This is done by gathering leaves together loosely as soon as heads begin forming, and tying them at the top.

Early Snowball (fr)—Best and most widely used early variety. Medium, firm compact heads of fine flavor. 6-7 inches in diameter. 55 days.

Danish Giant, Dry Weather—Later variety than Early Snowball and of larger growth. Well adapted to dry weather conditions. 75 days.

CELERIAC

Large Smooth Prague—(Turnip rooted celery). Smooth spherical roots. 2 to 3-in. thick. 120 days.

CELERY

Sow late spring for fall maturity. Have shaded beds and cover seed ¼". Transplant when 6" high. Keep soil well fertilized and moist. Crop matures in cool weather of autumn.

Golden Self Blanching, Dwarf—Compact plants, yellowish green foliage. Broad solid stalks, nutty flavor. Blanches readily. 120 days.

Utah—Green type, stocky plant, full hearted and compact; blanches readily. Stems thick, solid, medium broad and full rounded. Fine quality. 120 days.

CHICORY

Large Rooted (Magdeburg)—Dried roots are roasted and mixed with ground coffee. Roots 12 to 14 in. long, tapered from 2 in. at top. 120 days.

Witloof (French Endive)—Compact, blanched head. Crisp, broad leaves having pleasant sharp flavor. 140 to 160 days.

SWEET CORN

Do not plant until all danger of frost is past. Be sure soil is well worked and dry—then drop 6 kernels of corn in a shallow hole made with the corner of the hoe. Cover each "hill" with about 1" of fine soil pressed down firmly. When 6" high, thin to three or four plants in each hill.

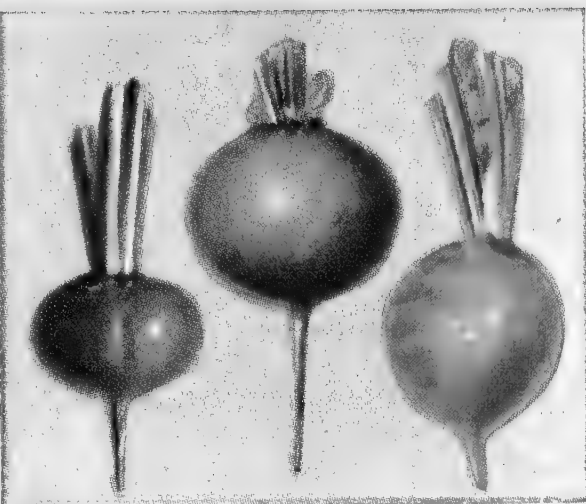
Hybrids

We offer Hybrid Sweet Corn varieties known and grown the country over—the finest that can be procured anywhere. We list here only a few of these choice kinds. Whatever your needs or your preference, be sure we can supply you with the kind of corn you want. Talk it over with us.

Carmel Cross—Vigorous and heavy yielding in comparison to its earliness. 12-14 rows of yellow kernels on medium sized, gently tapering ears. A hybrid developed for market, canning or home garden. 89 days.

Golden Cross Bantam (fr)—Extremely uniform. Ears 10 to 14 rows, slightly lighter yellow than Golden Bantam. Highly resistant to Stewart's disease. 85 days.

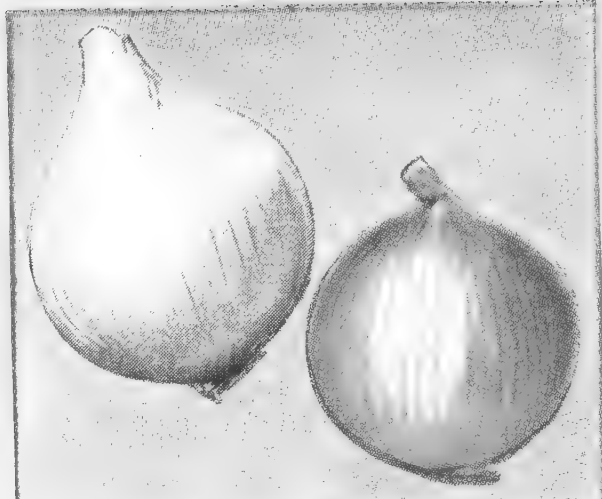
Continued on Page 12



**BEETS, Crosby's Egyptian (Center)
Early Wonder (Left)
Detroit Dark Red (Right)**



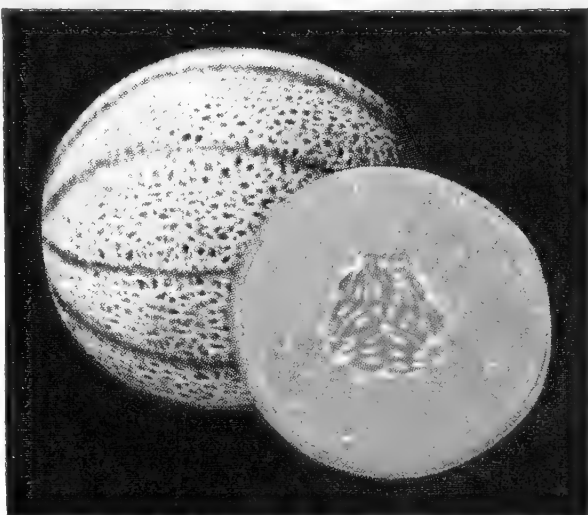
RHUBARB CHARD



ONIONS, Yellow Globe Danvers



TOMATO, Jubilee



CANTALOUPE, Hale's Best



EGG PLANT, Black Beauty

HOW? WHEN? WHERE? WHY?

Practical answers to every-day questions about home gardening

Extra Feeding

DON'T DEPEND on organic matter only for *feeding* your vegetables. While it has some fertility value, it won't provide enough. Remember that vegetables growing in a garden are in an artificial environment. You don't want *natural* growth; you want crops to mature as soon as possible, and this means *extra* feeding with suitable fertilizers. Properly used, chemical fertilizers furnish plant food at lowest cost in most readily available form.

DO make provisions for extra feedings through the summer as plants grow and take fertility from the soil.

When to Use Lime

DON'T apply lime unless it is really needed! It is good, of course, for the purpose of breaking up heavy clay soil. A good check on the need for lime is the way your beets grow. Usually a garden soil that will grow good beets contains enough lime. If beets do poorly, or if sheep sorrel grows vigorously, apply about 50 lbs. of hydrated lime or 100 lbs. of ground limestone to every 1,000 sq. ft. of garden. If you have a pH tester, most flowers and vegetables grow well in a soil that tests between 6.0 and 7.0.

Before You Dig

Before digging or plowing the garden, apply 2½ to 3 lbs. of balanced fertilizer over every 100 sq. ft. of garden. Divide fertilizer into two lots, sowing one with the wind and the other

across the wind. Or, better yet, use a fertilizer spreader.

Next, make a mud pie test. Pick up a handful of soil and pat it lightly into a mud pie or cake. If this can be crumbled into loose soil easily, the soil is all right to dig. If it hangs together, it is too wet: don't dig.

Spading the Garden

The average home garden can be dug easily in five or six days, if done in stages. Usually, a hand-dug garden is in better condition than one that has been plowed. Start by digging a trench the depth and width of a spade. Wheel the dirt from this trench around to the other side of the garden, where you plan to finish digging. Throw the dirt from succeeding rows into the trench made by the previous spade cut. The last cut is then filled with the earth wheeled from the first.

Spading vs. Plowing

DON'T allow bad plowing to spoil your soil. Many a garden plot has been ruined by a heavy tractor that worked it too wet. Be sure your soil passes the mud pie test before you allow a plowman to touch it. Too often, regular farm equipment is too heavy for working garden soils.

DON'T work your soil too much. Remember that after you finish digging or plowing, your soil has been fluffed up and loosened, so plant roots can grow through it easily. Every time you go over it you are packing it down, making it less suitable for

growing plants. Most inexperienced gardeners overdo surface preparation by trying to work the surface into a fine dust. Clods should be broken up, stones raked off and trash removed, within sensible limits. If the soil was dug at the right mud pie point, most lumps should break up without too much additional cultivation.

DO use a cord or garden line stretched across the garden in laying out rows. Crooked rows increase the work needed. Also, they waste space. Open furrows for sowing seed by running the end of a hoe handle along a taut cord. For most seeds this should not be more than ½" deep; 1" deep for peas, beans, corn, etc. Fine seeds should not be covered more than ¼" in the furrow. If your soil cakes or crusts badly, use clean sand, or a mixture of 50/50 sand and leaf mold, or peat moss, to cover the seed. This loose mixture does not cake and allows the tender seedlings to break through readily.

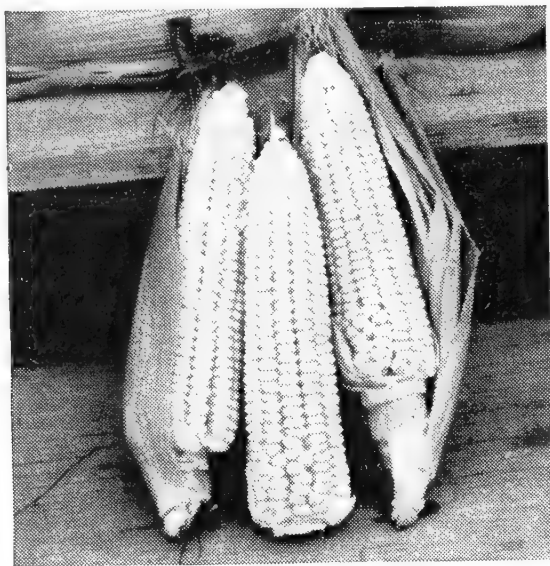
Where it is important to catch light rainfall, corn, peas, beans, etc. can be sown at the bottom of a 3" to 4" furrow, but should not be covered with more than 1" of soil.

A hill is a hole! Many gardeners think a "hill" for planting squash, cucumbers and melons is actually a pile of earth. But a hill means a shallow depression filled with rich earth, not a mound. This depression catches extra moisture that the vine crops need for rapid growth. Vine crops will grow better if you can dig in lots of well-rotted manure or compost underneath.

SWEET CORN, Continued

Marcross (fr)—An early wilt-resistant yellow hybrid, producing deep golden yellow kernels 7 days earlier than Golden Bantam. Ears 6 to 7-in. long, with 12-14 rows of large sweet kernels. 73 days.

Spancross (fr)—One of the best early hybrids. Well tipped small ears of 10-12 rows. Kernels are golden yellow, sweet and tender. 70 days.



SPANCROSS SWEET CORN

Open-Pollinated

Golden Bantam (fr)—The best and most favorably known of all the yellow varieties. Stalks often have 2 ears. Ears 8 rowed, kernels broad, with tender hull.

Golden Bantam Improved (Golden Giant) (fr)—A development from Golden Bantam. Kernels, deep and sweet, medium wide. Ears 10-14 rows. 82 days.

Golden Early Market—Tender, yellow kernels, of good flavor. 8-12 row ears. 72 days.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED

In bulk at money-saving prices.
Special quotations to market gardeners.
Prices subject to change without notice.

CUCUMBER

Select soil fully exposed to sun and enrich thoroughly with fertilizer. Seeds should be planted not over 1" deep in hills from 3' to 5' apart each way. Sow 15 to 20 seeds to a hill. When plants crowd thin to 3 plants per hill. Frequent shallow cultivation necessary until runners appear.

Cubit—Won Bronze Medal Award in 1944 All-American Selections. Dark green, white spine, cylindrical with blunt ends. Firm flesh and uniform coloring. New and worthwhile.

Chicago or Boston Pickling—Vigorous grower, fruits medium dark green, 6 to 7 inches long when grown; slightly tapering of even size. 58 days.

Gherkin—Pale green fruits, covered with prickly spines, oval and uniform. Grown for very small pickles. 60 days.

Improved White Spine (Extra Early)—Deep green, practically free from ridges. 7-in. long. Vines produce freely. 55 days.

Lemon—A very prolific variety, crisp and well flavored. Use for salads and pickles. Fruits nearly round, deep lemon yellow color, somewhat resembles a lemon. 65 days.

Long Green Improved—Black spined, good pickling. Grows 10 to 15 in. long. 70 days.

Straight Eight—Unsurpassed as slicing cucumber. All-America Selection. 2½-lb. fruits, rounded at ends, medium green. 68 days.

EGGPLANT

Requires continuous warm weather for best results. Seed should be started in a hotbed, as it is slow to germinate. Set plants in open ground when 2" tall and protect from hot sun when young. Be sure to keep young plants developing rapidly. Cultivate freely. To produce large fruits, remove lateral branches so as to reduce number of fruits per plant. Spray to protect from potato bugs.

Black Beauty (fr)—Large, egg-shaped, smooth, very dark purple fruits. Keep well. Plant bears 4 to 5 fruits. Early.

ENDIVE

Sow at intervals for continuous supply. When well started, transplant or thin to 1' apart. To blanch, tie outer leaves together over the center when plant is nearly grown. Just before killing frosts in fall, dig the plants, taking plenty of soil with roots—pack closely together and store in dark cellar for winter use.

Full Heart or Escarole—A strongly bunched mass of thick, slightly crumpled leaves, well blanched heart. Upright growing plant about 12 inches in diameter. 71 days.

Green Curled Ruffec—Plants 16 to 18-in. in diameter. Fine fall variety. White, tender, fleshy. 95 days.

HERBS

(Aromatic, Medicinal and Kitchen)

Every garden has a place for herbs. In the vegetable garden or for their ornamental appearance in the flower garden.

Anise—An annual—used for garnishing, seasoning and for cordials. Seeds have an aromatic flavor. Plants 14 inch. 75 days.

Basil, Sweet—Annual; Ht. 12 to 18 inches. Leaves, green or dried, are chiefly used as a seasoning for soups, stews, etc. 85 days.

Borage—Annual; Ht. 12-18 in. Young tender leaves are used as salad and also used to flavor lemonade and other cooling drinks. 80 days.

Caraway—Biennial; Ht. 18-24 in. Seeds used for flavoring. Young leaves and shoots used for flavoring salads. 70 days.

Coriander—Annual; Ht. 24-30 inches. Seeds used for flavoring and in candy and to mask taste of medicine. 75 days.

Chives—Perennial; Ht. 6 inches. Tops, finely chopped for adding mild onion flavor to soups, stews, salads, etc. 80 days.

Dill—Annual; 2 to 3 feet. Seeds and leaves used for flavoring—especially for dill pickles. 70 days.

Fennel, Sweet—Biennial; Ht. 2 to 4 ft. Leaves are used for garnishing, fresh stems, tender, eaten raw like celery or in salads. Seeds used for flavoring. 60 days.

Margoram, Sweet—Annual; Ht. 1 to 2 feet. Used for seasoning either fresh or dried. 70 days.

Rosemary—Perennial used as annual; 2 to 4 feet. Fragrant odor and warm, pungent taste, acceptable seasoning.

Sage—Perennial; Ht. 14 to 16 inches. Used for seasoning either fresh or dried. 75 days.

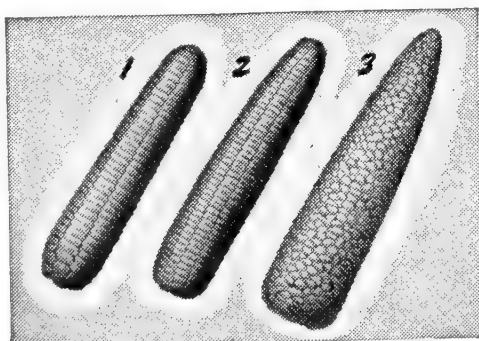
Thyme—Perennial; Ht. 8 to 12 inches. Aromatic foliage used as seasoning. 85 days.

The Old Gardener talks of SWEET CORN

Most sweet corn is really sweet only if it's home-grown. It must be cooked within an hour of the time it's picked if you want the true sugar flavor. As soon as it's picked, the sugar begins to turn to starch, and six hours after its picked, most of the sweetness is gone. So if you really want sweet, sweet corn, grow your own.

Even those who used to have failures with the old open-pollinated varieties because of plant disease can grow the new hybrid varieties with their big juicy ears. But if you do grow the hybrid kinds, be

sure to plant more than one variety because they set better ears when the pollen from more than one variety is flying at a time. And for best pollination, don't plant a long single row; instead plant several short rows side by side so the pollen can blow through them. All corn is wind-pollinated and wind must hit all the stalks in the field if they are to set good ears. For directions for growing better sweet corn, see Vegetable Seed Culture.



The sweet corns illustrated here are: 1—Golden Bantam; 2—Golden Cross Bantam; 3—Country Gentleman.

KALE OR BORECOLE

Requires moist, well enriched soil. Pick leaves as wanted, or pull whole plant. Leaves are best after a frost.

Dwarf Blue Curled Scotch—Wide spreading, fine curled blue-green plant, plume-like leaves. Use as a vegetable and for ornament. Exceptionally uniform. 55 days.

Tall Green Curled Scotch—Hardy, light green colored plant. Leaves deeply cut, curled at the edges. Very tender after exposure to frosty weather. 60 days.

Thousand Headed (Jersey or Cow Kale)—Very productive variety. Tall plants, bearing an abundance of deep green, thick, smooth leaves. Grown for stock and chicken feed. 65 days.

KOHLRABI

Sow early as possible in light, rich soil. When plants are in the third leaf, thin to 6" apart. Plant at intervals of 10 days for succession of bulbs until hot weather—after which they do not grow. Use while still young and tender, before skin hardens.

White Vienna Early (fr)—8 to 10-in. leaves on slender stems. Bulbs 2 to 3-in., globular, light green. Crisp, tender, clear white flesh. 55 to 60 days.

LEEK

Large American Flag—An early, popular variety, with thick, long white stems. Leaves large and drooping, medium green. 130 days.

LETTUCE

Keep lettuce growing rapidly for best results. A light, rich soil needed for this. Earliest varieties must be started from seed in cold-frame. As soon as open ground can be worked transplant. For later use, sow seed in open ground as soon as weather is favorable. Keep rows 12" to 18" apart. Thin plants in rows 4" to 8" depending on variety.

Heading or Cabbage

Great Lakes—All-America award. An outstanding new Iceberg or Crisp-head type. A summer lettuce that stands heat well and is very resistant to tip burn. Heads medium size, solid, crisp.

Hanson—Old hardy variety for home and market gardens. Large globular heads, compact tender and sweet. Light yellowish green leaves, broad and curly. 80 days.

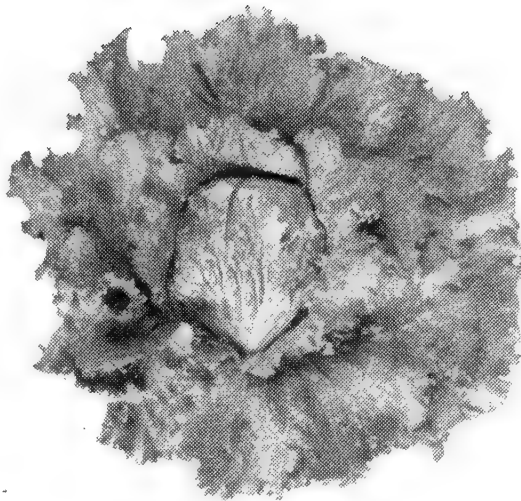
Imperial—Resistant to brown blight and mildew, also resists frost damage better. Good for Fall planting. Heads dark green, large, firm, somewhat coarse but of good quality. 83 days.

Imperial No. 847 (Florida Iceberg)—Heads are of good size and solid. Does well in hot weather and is resistant to tip burn. Very hardy. 83 days.

Mignonette—Heads small, round, compact. Leaves crumpled, frilled, medium brown with a bronze tinge. White heart, excellent quality for home gardens. 67 days.

New York or Los Angeles—Long distance shipper. Large curled heading lettuce. Dark green, curled edge leaves. Well blanched heads, sweet, and tender. 80 days.

NW



White Paris Cos or Trianon—Medium large self-folding, dark green leaf shaped heads. Greenish-white, well blanched interior. 66 days.

Loose Leaf Varieties

Black Seeded Simpson—Light green, frilled and crumpled. 45 days.

Grand Rapids—Erect, compact plants. Light green, broad heavily fringed. For forcing or early planting outside. 43 days.

Oakleaf—The most popular leaf lettuce for home gardens. Rick, dark green leaves, tender and delicious. Outstanding resistance to hot weather.

MANGEL WURZEL

(See Beets, Stock)

MELONS

Melons are hard to grow in the Puget Sound area or other northwestern areas where the summer nights are too cool for this heat-loving plant. You can, however, grow reasonably good melons in spite of the weather, provided they are given more than ordinary attention. Start the seeds indoors, each seed in an individual container, such as a used paper drinking cup, of rich potting soil. When all danger of frost is definitely gone, transfer the plants outdoors in a bed of rich, moist soil or compost. Water frequently, as soil must be kept very moist. Seeds may be planted in early May right in the garden PROVIDED they are protected with Hot-Kaps until all danger of frost is definitely gone.



The kind of lettuce you can grow at home—really crisp, fresh leaf lettuce—is the kind every master chef sighs for and can't get. As soon as your soil is workable, plant a row of black Seeded Simpson, or Oak Leaf. Or if you like head lettuce, try Big Boston, a butterhead full-flavored kind you can't buy on the market. Hot weather is hard on most lettuce, but try Great Lakes: you'll be surprised how well it grows and how slowly it bolts to seed. And you'll be delighted

Casaba, Golden Beauty—Grown in hotter sections. Fruits medium large and globe shaped. Outer color golden yellow. Flesh white, luscious and spicy. 110 days.

Hale's Best—Flesh thick, deep salmon-pink, sweet and tasty. Heavily netted rind, with faint stripe. Small seed cavity. Outstanding variety, resistant to powdery mildew. Weight, 4 lbs. 86 days.

Hearts of Gold or Improved Hoodoo—Nearly round 2-lb. fruit, distinctly ribbed, deep green with fine grey netting. Thick, deep salmon flesh, tender sweet. 94 days.

Rocky Ford, Golden Lined—Fruits, small, with rather large seed cavity. Nearly round, weight 2½ lbs. No ribs. Heavily covered with hard grey netting. Flesh thick, green with gold tinge at center. Very juicy and spicy. Excellent quality. 92 days.

WATERMELON

Requires about same culture as muskmelon, except the vines need more room. Fertilize each hill liberally and cultivate thoroughly.

Blue Ribbon Striped Klondike—Large long melon, yellowish green with dark green stripes. Tough rind. Scarlet, delicious flesh. 90 days.

Black-Seeded Ice Cream—Almost round with thin medium green rind. Inside flesh pink and exceptionally sweet and fine flavor. Matures early; fine keeper.

Kleckley's Sweet or Wondermelon—Large, cylindrical, dark bluish-green, with thin, tender rind. Bright red, juicy, sweet flesh, creamy-white seeds with traces of brown. 85 days.

Klondike—Fruits oblong, tapering to blossom end. Solid dark green rind. Flesh red, very fine textured and sweet. Small black seeds. 80 days.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED

The Old Gardener on LETTUCE



with its good crisp head lettuce flavor.

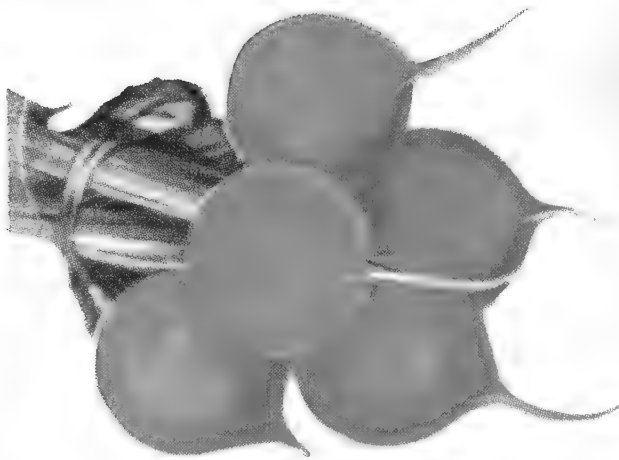
For a real treat, try Oak Leaf. It combines the wonderful flavor and quality of leaf lettuce with the productivity and crispness of head lettuce.

If allowed to stand, it produces loose heads.

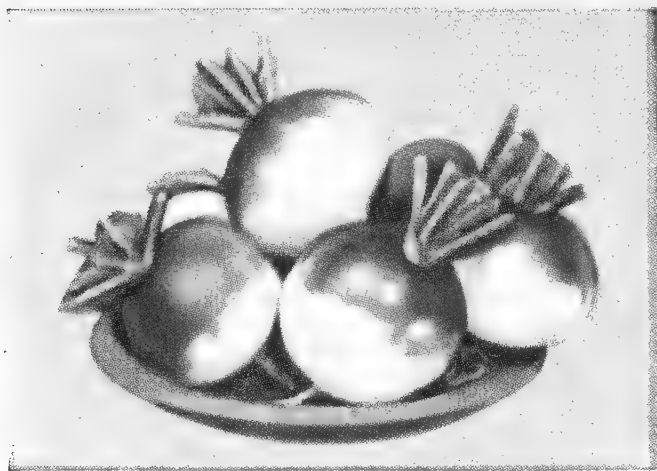
Remember that lettuce is a fast-growing, rich feeding crop. Give it plenty of water. And use your compost or well-rotted manure liberally on the lettuce row. A light sprinkling of nitrate of soda will pay, too, because lettuce thrives on lots of nitrogen.

The lettuce varieties illustrated here are: 1—Prizehead; 2—Iceberg; 3—Romaine.

HOW? WHEN? WHERE? WHY?



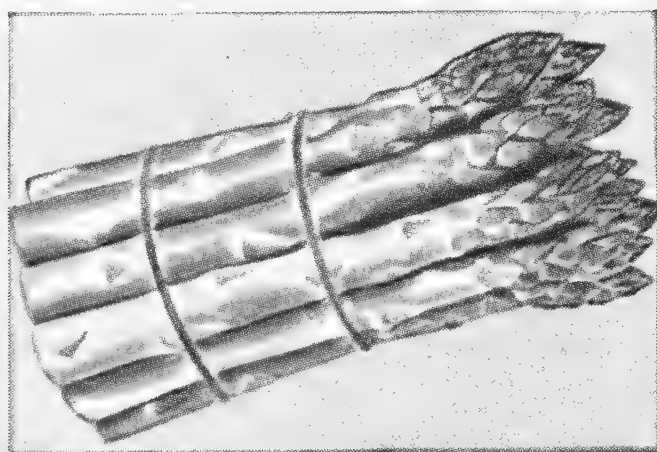
RADISH, Early Scarlet Globe



TURNIP, Purple-Top White Globe



CABBAGE, Early Jersey Wakefield



ASPARAGUS, Mary Washington



SQUASH, Zucchini

Transplanting

DON'T assume that transplanting is worth doing for itself alone. Transplanting is like an operation to a human being: the plant must recover from post-operative shock before it can take hold and start growing again. The only value in transplanting is that it allows you to use larger plants—important in short seasons. If there is ever any question as to whether to direct-seed or to transplant, always direct-seed unless quicker maturity is a factor. Even tomatoes, the crop most often transplanted, will usually produce as quickly from seed sown in the open as they will from transplants, which must grow new roots before they can begin growing again.

DO use good seedlings if you must transplant. They should be medium green in color, not too tall, and the leaves should be free from spots or dead areas. Avoid seedlings that are reddened or purplish in color, or show signs of yellowing (except in the case of celery plants, which can be quite yellow and still be good).

If you want to grow your own transplants to get healthy stock, follow these directions:

DON'T BEGIN too soon, unless you have a greenhouse or light hotbed and can give the seedlings plenty of room. For most vegetables, 6 to 7 weeks is time enough to allow between seeding and transplanting. Most homes are too dark, so don't try to grow seedlings unless you can do it in a sunny window that gets direct sunshine for at least six hours. Fill shallow boxes (flats) with a mixture of $\frac{1}{3}$ good garden soil, $\frac{1}{3}$ clean sand and $\frac{1}{3}$ compost, leaf mould or other well-rotted organic matter. Make very shallow rows or furrows with the edge of a ruler or a wood lath, 3" apart. Sow seeds in these rows 1" apart in the row. For most plants, a temperature of 70 degrees is a good compromise.

DON'T let your soil dry out, and don't let it be soggy. Spray *lightly* two or three times a day, using an atomizer or bulb sprinkler. When the best seedlings can be selected, thin out to stand 2" to 3" apart. Before transplanting into the garden, withhold water for 2 or 3 days. In transplanting, set the plants firmly by pressing on both sides of the stem with forefinger and thumb. If not firmed thoroughly, seedling may be killed by being hung with an air space underneath.

Always try to save as many leaves and roots as possible. Scientific tests show that it is better to allow the transplant to wilt slightly than to remove leaves to prevent that wilting. Removing leaves slows up manufacture of plant food that will help plant recover. Liberal watering should prevent wilting.

After Transplanting

As soon as the garden has been planted, water thoroughly but gently with a fine spray. This, by

the way, is the only time we sprinkle a garden; once the plants are established, any watering should give the soil a good soaking. If a crust forms after watering, break this by working with a hoe or cultivator on both sides of the row.

In the case of slow-germinating seeds like carrots and parsnips, mixing a few radish seeds in the packet will mark the row early. Otherwise you may have to delay cultivation until too late to do a good job of weed control.

DON'T take it for granted that cultivation will substitute for watering. Tests prove that pulverized soil loses just as much water after working as before. The real reason for cultivating is to destroy weeds. Weeds shade desirable plants, rob them of moisture and use up soil plant food.

Annual weeds are usually easy to kill if we can keep them from seeding. Deep-rooted perennial weeds, like bindweed and Canada thistle, are not so easy. The simplest way to control them is to take the land out of cultivation for a year and keep spraying with 2,4-D weed killer. If this isn't feasible, and if they must be controlled by cultivation, keep tops cut off every two weeks. Don't do this oftener, because otherwise the tops won't use up the stored food in the root. Don't do it less often, or the tops will manage to store new food.

Mulching Saves Work

Now that we know that a dust mulch allows just as much moisture to escape as bare, hard ground, cultivation should only be done to control weeds. A mulch, on the other hand, does what cultivation is supposed to do—it cuts down water loss from the surface and it also controls weeds. Any clean vegetable matter such as lawn clippings, chopped or whole straw or hay, ground corn cobs, peat, etc., can be used. Vermiculite, a mineral product used as house insulation and as poultry litter, has proved a valuable mulch because of its high water-holding capacity and insulating value.

Apply these mulches when the soil is still moist. If applied after the soil dries out, they fail to function. Remember—a mulch does not stop the use of water by the plants—it merely checks surface evaporation and keeps down weeds.

VEGETABLE SEED CULTURE

There's no end to the science of vegetable gardening—nor to the books that have been written about this fascinating subject. But if you haven't the time to read all the books, then try the brief paragraphs that follow. Here are the fundamental facts—the things every vegetable gardener should know—AND DO!

ASPARAGUS

Soak seed 24 hrs. before planting. Sow in loose, rich, moist soil after danger from frost is past. Thin to stand 6" apart. In early spring, set in permanent position, 24" apart, in rows 36" apart. Set in hole so that crown is 8" below surface, but only cover tips with 3" of soil. As plants grow, fill in until level. Don't cut first year after setting.

SNAP BEANS

Don't plant until danger from frost is over.

Sow beans in bottom of 3" to 4" furrow, 18" between rows, but do not fill in with more than 1" of soil over seeds. Thin to stand 4" to 6" apart in row. Bean seedlings are likely to break their necks pushing through heavy soil. In such soils, cover seeds with mixture of half sand and half soil, or sand and peat or any other loose, light material that will allow seedlings to break through easily. Make successive sowings every 2-3 weeks until 60 days before frost. Don't cultivate beans when wet; this may spread disease.

BUSH LIMA BEANS

Plant two weeks later than bush snap beans, when soil is warm. Space rows 24" apart; otherwise follow instructions for snap beans.

POLE BEANS and POLE LIMAS

Both these should be planted two weeks after bush beans. Rough poles set 3 feet apart should be used. Anchor well, as heavy bean-vines blow over easily. Sometimes three poles set to form a tepee are used and several seeds planted around each tepee.

SPECIAL NOTE ON ALL BEANS.

—Two scientific facts about beans will help produce better crops. First, being legumes, they should be inoculated with special legume culture listed in supply section. This enables plants to manufacture own nitrogen from the air. Second, bud drop of the tiny flowers (even before they can be easily seen) cuts the early set of pods. By spraying with FRUITONE these buds are held on and the early crop increased as much as 100%.

BEETS

Each "seed" is a fruit with several true seeds. No matter how thinly beets are sown, they will need thinning. Plant as soon as ground can be worked in spring, thin gradually (use thinnings as greens) until roots stand 4" apart. Make three sowings, one early, one three weeks later and one 60 days before frost is expected.

BRUSSELS SPROUTS

Grow like late cabbage, but don't use until after heads have been frosted.

BROCCOLI

Start plants indoors 5 weeks before last frost. Set out 12" x 24". Broccoli heads must be harvested before they bloom: they are inedible after yellow flowers appear. Direct-seed for late crop 60 days before frost is expected.

Special Directions for Controlling Insects in Cauliflower, Broccoli and Brussels Sprouts

Use Rotenone dust or spray. It must hit insects directly, so drive them out of inner head by dusting or spraying with light dose of Rotenone. Allow plant to stand for 10 minutes, then go back over the same row with a heavy dose of Rotenone. By this time the worms will be out on the surface and are sure to be killed. Repeat every 10 days.

Ask us how to control root maggots that harm cabbage, Brussels sprouts, onions, radishes, and turnips—also how to guard against the carrot rust fly.

EARLY CABBAGE

Start plants inside (see Page 14). Set out 12" x 24" as soon as frost danger is past. Dusting with D.D.T. is safe if outer leaves are discarded, since plant grows from the inside out.

LATE CABBAGE

Direct-seed four months before frost is expected, thinning to 24" x 36". Or start plant indoors (see Page 14) 30 days before needed, transplanting outdoors 90 days before frost. Don't water freely when heads are nearly filled, as this promotes splitting; irrigate only enough to keep plants growing well.

CELERY

Start in hotbed 60 days before needed. In setting outdoors, don't get soil in or over crown. Set 7" to 12" apart. Soil must be rich, moist and loose. As soon as plants have grown to 14" to 15" tall, set 12" boards on both sides of row and hold in place with earth. Or 4" drain tile can be used to blanch individual stalks.

Celery must have warm, settled weather: if chilled, plants are likely to go to seed.

CHINESE CABBAGE

Must never be grown as a spring crop since it will only go to seed. Plant after June 15th, as days are getting shorter: then it will head. An excellent succession crop to follow early peas.

COLLARDS

Follow directions for early cabbage.

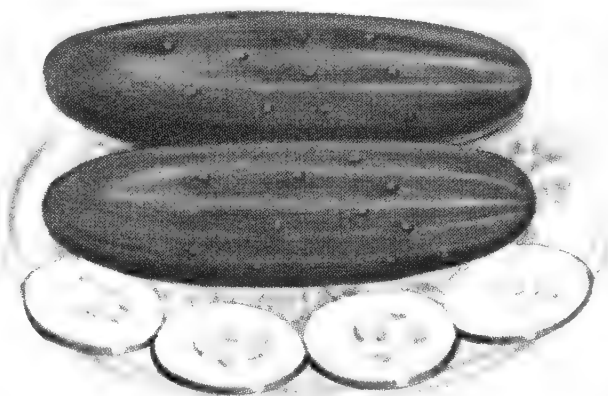
(Continued on Page 17)



BEANS, Improved Golden Wax



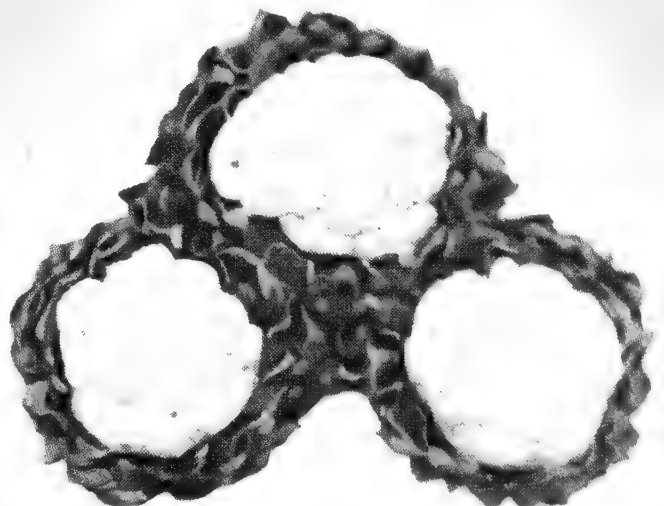
TOMATO, Stokesdale



CUCUMBER, Cubit



SQUASH, Early Prolific Straightneck



CAULIFLOWER, Early Snowball

MUSTARD

Sow as early as possible in the spring. Keep rows 6" to 12" apart and cover with soil 1/2" deep. You may also sow seed in autumn to raise greens and for salads.

Mustard Spinach or Tendergreen—Wholesome, quick-growing green, combining mustard and spinach flavors, 28 days.

Southern Giant Curled—Large, frilled and crumpled. Light green leaves. 35 days.

OKRA OR GUMBO

Sow in rows about 3' apart. Cover seeds with about 1" of fine soil firmly pressed down. Thin plants 18" to 24" apart when they reach 3" growth. Do not plant until ground is warm, as this is a tender, hot weather plant. Pick before woody fibres develop.

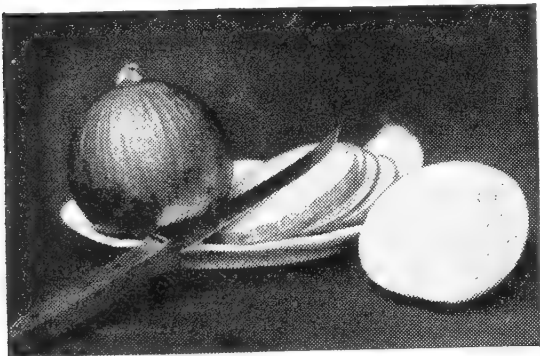
Perkin's Mammoth Long Pod—Early and prolific. Very tender, long pods. Deep green and slightly corrugated. 68 days.

ONIONS

Plant as soon as soil can be prepared. For best yield, plant on very fertile land—fall plowed, and thoroughly fertilized. When plants are a few inches tall, thin to prevent crowding—using the plants removed as green onions. Those left to become fully ripe can be stored for winter. Cultivate and hand weed every 2 weeks during summer.

Yellow Varieties

Yellow Sweet Spanish—Large, globe-shaped, exceptionally mild and sweet—excellent for eating raw or boiled. Light yellow skin and pure white, firm, crisp, and tasty flesh. 112 days.



SWEET SPANISH ONION



ONION SETS

Onion sets used instead of seeds will produce earlier crops of green onions or large bulbs. Plant sets right side up and cover with garden rake; then firm the soil well over the sets.

The quickest way to get onions early. We offer choice, select, dry sets, of the highest quality. (Prices on application.)

PARSLEY

Does best in rich, mellow loam. Seed is slow to germinate, and is helped by soaking in warm water over night before planting. Sow early and not too deeply. When curled varieties are about 3" tall, cut off leaves. The new growth will be brighter and curlier.

Moss Curled or Triple Curled—Compact, dark green leaves, curled and fine-cut. 70 days.

PARSNIP

Plant in rich, sandy loam, thoroughly pulverized. Seed requires plenty of moisture for germination and should be sown early. Dig after a killing frost. Freezing improves parsnips, so some can be left in the ground all winter and used in spring. For storage, bury in dry sand.

Hollow Crown (fr)—The most generally grown kind. Roots 2 1/2 to 3-in. thick at shoulder. 12 to 14-in. long, uniformly tapered, hollow crowned. 95 days.

PEAS

Early peas need a light, warm soil; but general crop thrives best in moderately heavy soil. (Avoid fresh manure and very rich or wet, mucky soil as this produces large growth of vine at the cost of quality of the peas.) Plant seed in rows at 2" depth. Keep rows 21" to 28" apart for dwarf varieties and 28" to 42" for the taller types. Gather crop as fast as it is fit to use or new pods will cease to form and those partly advanced will cease growth.

Early and Second Variety

Alaska—Wilt resistant. Used for canning and early home garden. Blunt, straight, light-green, 3-in. pods. Plants 32-in. 60 days.

American Wonder—A standard, well known extra early dwarf variety. 18 inch vine. 59 days.

Continued on Next Page

Yellow Globe Danvers—An oval shaped, straw-colored onion. White flesh, crisp and mild. Splendid keeper. 110 days.

White Varieties

Crystal Wax Bermuda—Sometimes called White Bermuda. Bulbs flat, medium-sized, clear white. 92 to 94 days.

White Bunching—A good Spring appetizer. Crisp and mild. A fine white onion for cooking when grown larger. 60 days.



WHITE PORTUGAL ONIONS

White Portugal or Silverskin—Excellent flat variety. Dependable cropper, excellent for sets, for green bunching, or as a pickler. 100 to 102 days.

Red Varieties

Red Wethersfield—Popular, good keeper, used extensively for sets. Medium large, flat bottomed bulbs with sloping top. Purplish-red. Fine grained flesh, firm, slightly flushed with pink. 100 to 102 days.

"There ought to be a law!"

—says the Old Gardener

"Yessir, there ought to be a law that would **make** everybody grow a garden! Considering the state the world is in nowadays, a law like that would be a wonderful thing!

"Here we all are, grumbling and growling about food prices. And just outside our doors is the good earth, that can give us the finest of all answers to the situation! Here is Nature's age-old weapon for fighting hunger, just waiting to be used. If only enough people would use this weapon, a lot of our worries would melt away!

"After all, what wiser thing can a family do than get back to the soil for a part of its sustenance?

"Surely, the greatest bargain in the world is a handful of garden seed.

Here's one of those rare things that can still be bought for a few pennies, yet brings the buyer a golden return.

"It's a mighty good thing, then, that the seedsman is still on the job, ready to sell his amazing bargains to all comers . . . and ready too, to be a friend, guide, and counsellor to all who buy. There aren't many merchants like this left in the modern world!

"So here's the all-party platform for Spring:

"Now is the time for all good men to rally to the principle that 2 and 2 still make 4, that a man owes it to himself, his family, and his nation to grow food, grow health, and fight inflation right in his own back yard!"

All Vegetable Seeds

10¢ PER PACKET

UNLESS OTHERWISE NOTED

In bulk at money-saving prices.
Special quotations to market gardeners.
Prices subject to change without notice.

Gradus—Medium green stocky plant. Broad, pointed single pods, medium green. 6 to 8 wrinkled tender peas in tapered pods. 60 days.

Hundredfold or Laxtonian—Exceptionally choice and prolific. Dark green, rather coarse vines, producing straight pointed, well-filled 2½-in. pods. 62 days.

Laxton's Progress (fr)—Medium dark green vine, 16 to 18-in. Single pods almost an inch wide and 4½ to 5-in. long, with 7 to 9 large peas. 62 days.

Little Marvel (fr)—Outstanding, dwarf. Fine quality, large yield. Single and double, dark green, 3-in. pods—blunt, plump, well filled with 7 to 8 medium sized, light green tender peas. 62 days.

Later Varieties

Alderman or Dark-Podded Telephone (fr)—Large podded variety of the Telephone family. Excellent for home gardens, truckers, shipping to distant mar-

kets and for freezing; resistant to Fusarium wilt. Vine dark green, coarse. Pods single, very broad, plump, straight, dark green, pointed; contains 8 to 10 peas of highest quality. Seed large, wrinkled, light green. 74 days.

Dwarf Telephone or Daisy—Large pods 4½-in. long, broad, straight and pointed, containing 7 to 9 large round peas. Vines about 24-in. tall. A popular main-crop pea. 79 days.

Edible Podded or Sugar

Mammoth Melting Sugar—Wilt resistant. Coarse light-green vine, 54-in. Single 4½-in. pods, broad, indented, light, blunt, stringless, without fiber, fleshy. Contains 7 peas. Seed large, round, creamy-white. 74 days.

PEPPERS

Warm, mellow soil in sheltered location is best. Start under glass. Cultivate regularly, drawing soil up around stems. When plants are 7" to 8" tall, hoe in light dressing of commercial

fertilizer. Do not plant hot peppers near sweet; they are apt to cross.

Sweet

California Wonder Improved—Number one quality peppers, about 4-in. long and 3½-in. diameter, very smooth, 3 and 4 lobed, glossy green, turning bright crimson when ripe. Remarkably thick walls, tender, sweet. 75 days.

Large Bell or Bull Nose—An early variety, popular as a pickling sort. Fruits 2 inches in diameter and 3 inches long. Usually mild and sweet, occasionally hot on account of pungent ribs. 60 days.

Pimento or Perfection—Best of the medium sized sweet peppers. Excellent for stuffing. Smooth, heart-shaped, about 3-in. long. 125 days.

Hot

Long Red Cayenne—The hot favorite. For canning, pickling, drying. Pungent flavored fruit, tapering and twisted. 70 days.

HOW? WHEN? WHERE? WHY?

(Continued from Page 15)

SWEET CORN

For the home gardener, the simplest way to plant sweet corn is in rows or drills, not in hills. Space the rows 36" apart, and plant a seed about every 3". Thin stalks to stand 12" apart in row. The drill should be 3" to 4" deep, but don't cover seed with more than 1" of soil. The drill or furrow can be filled in as the plants grow to anchor them against wind.

Removing suckers has been standard practice with practically all growers. Now, experiments prove that removing suckers merely takes away extra food-producing leaves and so hurts rather than helps growth. Also, suckering often disturbs roots enough to injure plant.

Always plant corn in several short rows side by side rather than one long row. Corn is pollinated by wind and rows side-by-side mean that all the stalks can be reached by the pollen. Many home gardeners, on reading newspaper accounts of corn de-tasseling assume that this is necessary to set ears. On the contrary removing tassels may cut the crop seriously. Detasseling is *only* done where hybrid corn is raised for seed purposes. The more pollen that flies, the better the set of kernels. So *don't* detassel sweet corn in the home garden.

If weeds are under control, stop cultivating. If weeds are bad late in the season, work the soil as shallow as possible to avoid injuring surface feeder roots.

CUCUMBERS

Sandy soils with plenty of compost are best. Roots have difficulty on heavy soils. Plant 8 to 10 seeds in a hill (see Page 11—A HILL IS A HOLE). When vine is 6" long, thin to three strongest plants. Keep fruits picked to promote continuous fruiting. If compost isn't available, feed with commercial fertilizers. Use plenty of moisture: cucumbers are 90% water.

NW

EGGPLANT

Start seed indoors 8 weeks before plants are needed. Set out after apple blossoms have fallen and weather is warm and settled. Feed and water liberally as Eggplant needs to be kept growing rapidly to produce well. D.D.T. will control pests that until now made this a tricky crop to grow.

ENDIVE

Strictly a cool-weather crop: gets bitter at temperatures much above 80°. Plant very early and again in mid-July. Use last planting as late fall salad crop, and store surplus in cold frame or cellar by digging each plant with ball of soil. Space 12" apart in rows 18" apart. Feed liberally for bigger, crisper heads.

KALE

Grow like Brussels Sprouts.

KOHLRABI

Wants rich soil. Plant early in spring 4" apart in row. Must be used when young: woody when old. Make second planting 3 weeks later, and again after mid-July.

MUSKMELON

Plant 8 to 10 seeds to a hill (see above—A HILL IS A HOLE) after weather is warm. If grown in cool weather will not bear well and melons will have poor flavor. Melons love plenty of compost or well-rotted manure. When vines begin to run, thin to 3 plants to a hill. On heavy soil, Bender's Surprise or Hearts of Gold do better than others. In damp soil mulch with clean straw or raise each fruit on a shingle to keep from rotting.

OKRA

Plant on rich soil when weather is hot and settled, spaced 12" x 24". Pods mature rapidly and must be picked or they will be inedible.

ONIONS

Sets produce sooner than seeds. Set 1" apart and pull every other set for

Practical answers to every-day questions about home gardening

use as green onions. Again pull every other onion, leaving balance of sets to mature as dry onions.

From seed, onions have better flavor. Green onions can be grown in about 60 days from seed. Use thinnings for green onions, leaving 4" apart for globe types and 6" for the big Spanish types to mature for dry onions. Latter can also be started indoors for largest bulbs and can be set out 6" apart after frost danger has passed. All onions need liberal feeding and watering.

PARSLEY

Seed germinates slowly; soak over night. Sow early as seed germinates poorly in hot weather. Space plants 8" apart. Plain parsley has best true parsley flavor: curly sorts better for garnishing. If leaves are cut off when plant is 4" tall, curly sorts will have better curl.

PARSNIPS

Must be planted as early as ground can be worked. Soil must be loose to a depth of 12" and cannot be heavy. Space 5" apart. Frost turns starches into sugar and improves flavor. Roots are hardy: leave in ground over winter if desired.

PEAS

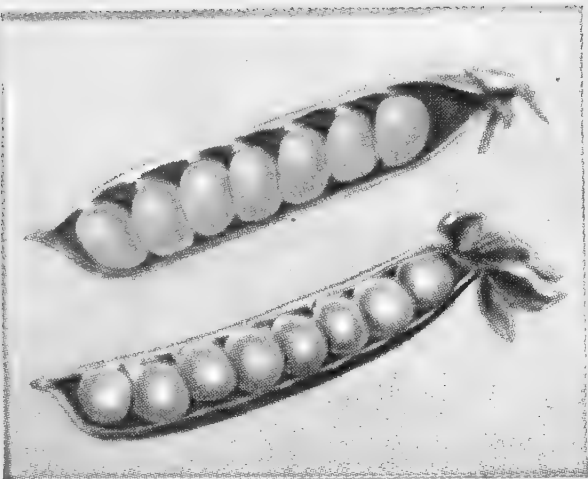
Plant variety Alaska as soon as ground can be dug. Plant wrinkled varieties (which have better flavor) when narcissus buds show color or when crocuses are in bloom. Peas are not satisfactory when weather turns hot. Tall varieties must be staked. Most home gardeners prefer dwarf varieties like Little Marvel. Peas want well-limed soil. Don't forget, inoculation improves production.

PEPPERS

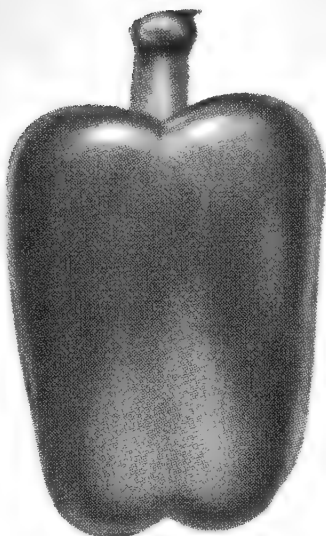
Need long growing season: start indoors 8 weeks before plants are wanted. Set out after petals on apple blossoms have fallen. Set plants 15" x 24" and feed liberally for bigger fruits.

PUMPKINS

Follow muskmelon culture, or plant in corn after last cultivation.



PEAS, Little Marvel (top)
Laxton's Progress (bottom)



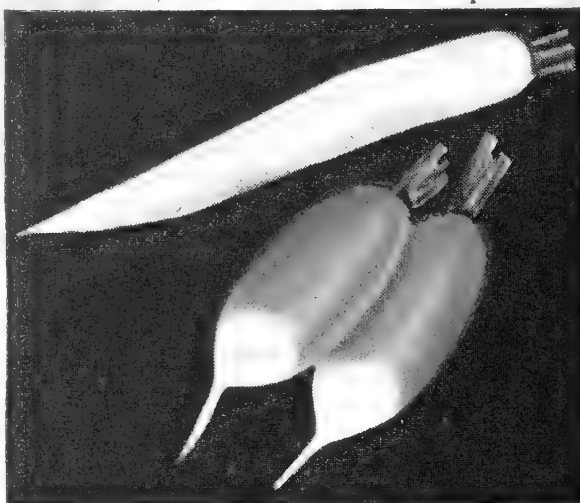
PEPPER, California Wonder Improved



BEANS, Bountiful



TOMATO, Marglobe



RADISHES, Icicle and French Breakfast



TOMATO, Rutgers

HOW? WHEN? WHERE? WHY?

Practical answers to every-day questions about home gardening

(Continued from Page 17)

RADISHES

As a rule the first crop to mature: plant as early as soil can be dug. Feed liberally for quick growth. Sow a 10 foot row every ten days until weather turns warm. Start planting again with the coming of cool weather in fall. The fall and winter types are sown in mid-summer to mature in fall for storage.

SPINACH

Seed in fall (protect with straw) or in very early spring. Must mature before hot weather.

Spinach (New Zealand)

While this crop grows freely in hot weather, it will not germinate except when soil temperatures are below 70 degrees. Hence it should be sown with the half-hardy crops—those that are planted when the narcissi bloom. Plant in soil with plenty of organic matter, spacing the plants about 3 feet by 3 feet. Keep them cut back, since only the young growing tips are eaten and long, woody stems have little flavor. Many who have tried a mixture of half Swiss Chard and half New Zealand Spinach say that this is better than either vegetable alone.

SQUASH

Follow culture given for muskmelon for vine types. Grow bush types in rows, spaced 24" apart. Keep picked. Will bear all summer.

TURNIPS

Follow directions for radishes. Thinnings can be cooked for greens.

TOMATOES

There are two schools of tomato culture—those who stake and those who don't. Reasons for and against are as follows:

FOR STAKING: While staked plants produce fewer fruits per plant, they produce more tomatoes for a given area. So if room is at a premium, it will pay to stake. Staked plants usually produce cleaner fruits and bear somewhat earlier.

AGAINST: Staking calls for much extra labor in staking, tying and pruning. The total production per plant is higher in unstaked and unpruned plants. If you have plenty of room, the saving in labor makes the unstaked method the best. All commercial canning crops of tomatoes are grown in this way. If the ground under the vines is covered with a mulch of clean straw, this will improve the quality of the fruits and will also keep weeds down and save moisture.

When staking, set plants 18" apart in the row, in rows 3 feet apart. Use a 7 foot stake, driven 1 foot into the ground. Tie plant to stake with soft twine or other plant tie. Habit of growth calls for a side shoot from the first point where a leaf joins the main stem, another side shoot from the second leaf joint, and a flower cluster from the third joint. This 2-1 pattern of growth is repeated up the entire

stem. The staked plant is allowed to grow from the tip, and as it grows, the stem is tied to the stake. As the side shoots appear, these are pinched out or rubbed off, leaving the flower clusters to produce fruits. When training tomatoes to stakes, be sure to leave all possible foliage to hide the fruits from direct sunshine; otherwise they will sunscald.

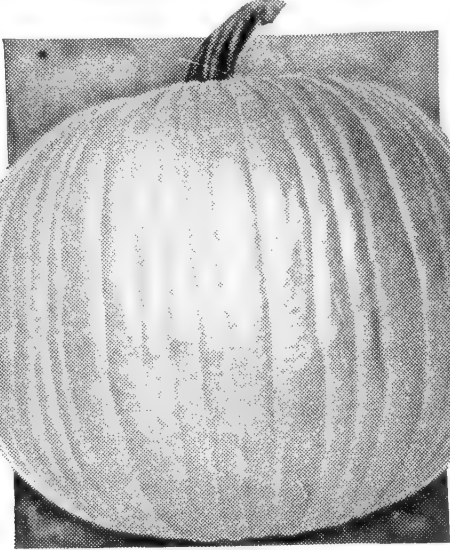
Tomato diseases have been on the increase lately. For this reason, planting disease resistant varieties like Rutgers, Pritchard and Marglobe is good business. Planting outside when the weather is cold and wet encourages disease by favoring the growth of aphids, which multiply at lower temperatures than do their enemies. Aphids spread virus diseases. By delaying planting until the weather is really warm, much of this type of injury can be prevented. Dusting with Tomato Dust helps control fungus diseases.

Blossom end rot and cracking at the stem end are due to variation in water supply. Don't allow water in soil to fluctuate any more than you can help. Don't water freely for a time and then stop. If you start watering, keep it up at regular intervals. A heavy mulch of straw not only helps prevent violent fluctuations in water supply, but helps keep the fruit clean if the vines are not staked. When grown without staking, the vines will sprawl on the ground. This means they will need more room. Three feet between plants and four feet between rows will not be too much ground to use if you can spare the room.

PUMPKIN

Plant in middle of spring among corn; or in hills 8' apart each way. Drop 4 seeds to a hill. If planted in hills, cultivate the same as melons and cucumbers. For winter use gather before frost (leave stem 3" to 4" long) and store in warm, dry place.

Connecticut Field—Large fruit with flat ends, 15 to 25-lbs. and up to 15-in. Surface, slightly ribbed, deep orange. Thick flesh, orange-yellow, sweet and coarse. 118 days.



CONNECTICUT FIELD PUMPKIN

Small Sugar or New England Pie—Desirable for pie or general use. Round, flat end fruit, deep orange. Thick, yellow-orange flesh. 118 days.

Winter Luxury—Large rounded fruits, flattened at ends. Thin skin, netted, orange yellow. Thick, firm and sweet flesh of fine flavor for pies. 100 days.

RADISH

Soil should be light, quick and rich to insure rapid growth. Slow growth makes the flavor too strong. Sow as early as ground can be worked, as Radishes are very hardy. Make successive sowings up to hot weather. When in the third leaf, thin to give roots plenty of room. Pull promptly when mature. The secret of crisp, delicious radishes is quick growth, prompt picking.

Crimson Giant—Large round, 1 to 1½-in. Deep crimson roots. Very crisp and tender for its size. 28 days.

Early Scarlet Globe—Globular, slightly elongated, bright scarlet. 24 days.

Early Scarlet Turnip, White Tipped—Carmine red with white tip. Flesh white, crisp and mild. 26 days.

French Breakfast—Roots thicker toward bottom. 1½-in. long by ½ to ¾-in. Dull scarlet, white tipped. 25 days.

White Icicle—Tapering roots 5 to 5½-in., very white with pure white, mild flesh. 27 days.

Fall and Winter Varieties

Celestial or Chinese White Winter—White flesh, rather mild in flavor. Roots large, 8" long and 2½ to 3 inches in diameter, cylindrical with heavy shoulder. 60 days.

Chinese Rose Winter or Scarlet China—Popular, very distinct winter sort. Good for late salads. Cylindrical blunt, smooth, bright rose-red. Flesh white, very firm and pungent. 52 days.

RUTABAGA

(See Turnip)

SALSIFY

Light, rich soil best and it must be stirred to a considerable depth. Sow in rows 18" apart. Cover seeds firmly with ½" of fine soil and thin plants later to 2" to 3" apart in the row. Cultivate the same as parsnips or carrots.

Mammoth Sandwich Island—A palatable and nutritious vegetable when cooked. Flavor is remarkably similar to oysters. 120 days.

SPINACH

Plant very early in spring—or start seed in fall (giving it protection by 3" of straw over the winter) and enjoy an early spring crop. Cut all spinach before hot weather as it doesn't do well in extreme heat. Sow again in August or September for fall crop. Spinach should be gathered before the flower spike appears.

Bloomsdale Savoy, Long Standing (fr)—A few days later than regular Bloomsdale Savoy. Holds from 12 to 14 days longer. 42 days.



NOBEL GIANT LEAF SPINACH

Giant Nobel or Giant Thick Leaf—Large, vigorous, spreading plant, slow to form seed stalks. Heavy yielder. Large, thick, smooth, deep green leaves. 45 days.

New Zealand—Thrives in dry, hot weather. Can be picked repeatedly all season. Not a true spinach, but similar when cooked. 70 days.

SQUASH

Very sensitive to cold so delay planting until warm weather. Follow same care in planting and culture as for cucumbers and melons. Plant summer varieties 6 or 8 seeds in hills 3' to 4' apart each way and winter squash 8' apart. Plants bear longer if squash is picked off as soon as it is ready for use.

Summer Varieties

Early Prolific Straightneck (fr)—Earlier, smaller, and more productive than Giant Summer Straightneck, and more uniform. Brilliant yellow. Fine for home or market. 50 days.



EARLY WHITE BUSH SCALLOP

Early White Bush Scallop—Fruits greenish when young, become white at maturity. 3-in. long, 7½ to 8½-in. wide. 53 days.

Giant Summer Crookneck—Prolific, bush type plant, curved neck fruits around 4 to 5-lb., 20 to 24-in. long. 4 to 5-in. diameter. 56 days.

Continued on Page 21

WHEN TO SOW . . . by Nature's Calendar

Man-made seed catalogs and books usually give planting dates and directions on a calendar basis. We'd like to do this, too, but our experience has taught us that such arbitrary dates are dangerous. Weather variations from year to year are likely to make the most carefully compiled dates go wrong. That's why we suggest you follow natural planting dates, which take into account the variation from year to year. While they are not 100% infallible, they are far more accurate than the calendar.

FULLY HARDY CROPS

Sow as soon as you can work the ground in spring, or when the farmer is planting oats. In some years, crocuses, snowdrops and winter aconites may be in bloom, but if the soil is workable before they appear, don't wait—plant as soon as you can. Even if the soil freezes over the seed, the following vegetables will start growing when it thaws again; Brussels sprouts, Broccoli, early Cabbage, Cauliflower, Collards, Cress, Endive, Kale,

Kohlrabi, Lettuce, Mustard, Onion sets, Parsley, Parsnips, Alaska Peas, Radishes, Salsify, Spinach and Turnips. All of these can be seeded in fall (just before the ground freezes for the winter) and should give fair results in spring.

HARDY CROPS

Plant these when earliest tulips and narcissi bloom, when maple trees flower and when forsythia shows signs of fading: Beets, wrinkled Peas, Swiss Chard Leek, New Zealand Spinach, Onion Seed, Spinach. Take a chance on an early planting of Sweet Corn.

TENDER CROPS

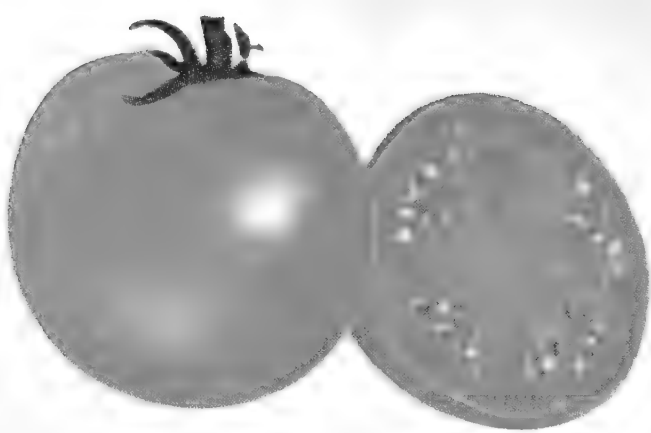
Plant when Darwin tulips, lilacs and apple trees are in full bloom: Bush Beans, Sweet Corn, Pumpkins, Summer and Winter Squash.

TROPICAL VEGETABLES

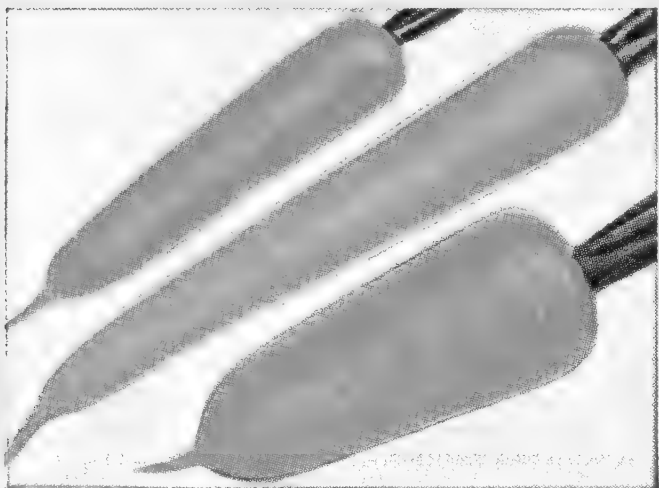
When the petals on apple blossoms fall, and when the late tall irises are in full bloom, plant the following: Lima Beans (bush and pole) Pole Snap Beans, Muskmelon, Okra and Watermelons. Now is the time to set out all greenhouse-grown plants of tender vegetables like Peppers, Eggplant and Tomatoes.

All Vegetable Seeds
10¢ PER PACKET
UNLESS OTHERWISE NOTED

In bulk at money-saving prices.
Special quotations to market gardeners.
Prices subject to change without notice.



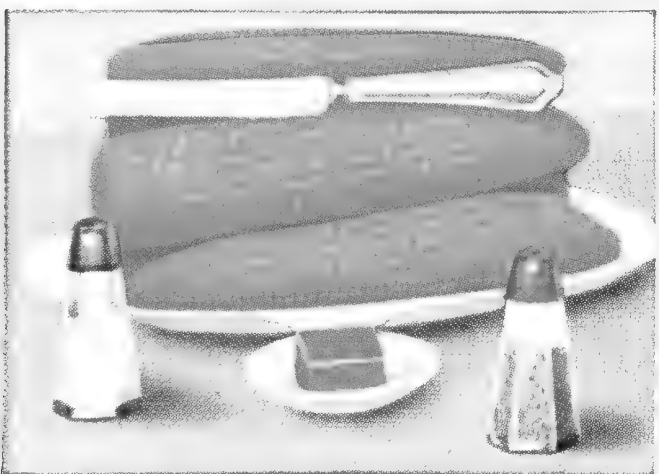
TOMATO, Pritchard (Scarlet Topper)



CARROTS, (top) Danvers Half Long, (center) Emperor, (below) Chantenay



SWISS CHARD, Lucullus



CORN, Golden Cross Bantam



20 LETTUCE, Black Seeded Simpson

Planting Guide

FOR VEGETABLE GARDENS

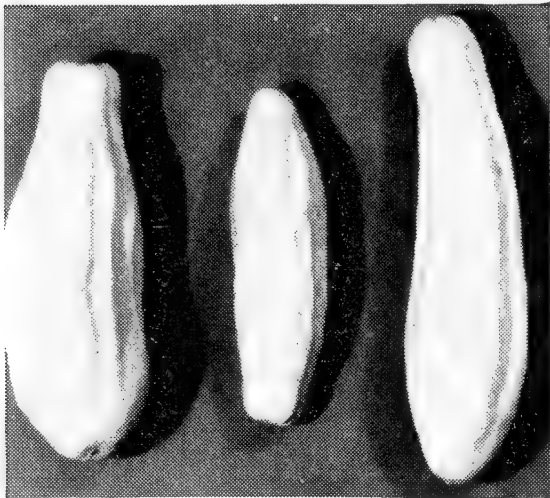
	Seed Required for 50 Ft. of Row	Distance Between Rows (Inches)	Distance Apart in Row (Inches)	Depth of Planting (Inches)	Approximate Yield per 50 Ft. of Row	Seed Required Family of 5
Artichoke	1/8 oz.	36 to 48	18 to 24	1/4		
Asparagus	1/2 oz.	14 to 24	3 to 6	1	25 lbs.	1/2 oz.
Beans, Bush	1/2 lb.	24 to 30	2 to 3	1 1/2 to 2	20 qts.	2 lbs.
Beans, Bush Lima	1/2 lb.	18 to 24	2 to 3	1	32 qts.	1 lb.
Beans, Pole	1/2 lb.	36 to 48	6 to 8	1 1/2 to 2	30 qts.	1 lb.
Beans, Pole Lima	1/4 lb.	36 to 48	6 to 8	1 1/2 to 2	1 1/4 bu.	1 lb.
Beets, Table	1/2 oz.	14 to 24	3 to 4	1/2 to 1	1 1/4 bu.	2 oz.
Beets, Mangel	1/2 oz.	20 to 28	3 to 4	1		
Broccoli, Heading	1/8 oz.	24 to 30	24	1/2	50 head	1 pkt.
Brussels Sprouts	1/8 oz.	24 to 30	12 to 18	1/2	15 qts.	1 pkt.
Cabbage	1/4 oz.	18 to 36	14 to 24	1/2	35 to 50 head	1/4 oz.
Chinese Cabbage	1/2 oz.	18 to 24	12 to 15	1/2	40 to 50 head	1 pkt.
Carrots	1/4 oz.	16 to 24	1 to 3	1/2	24 qts.	1/2 oz.
Cauliflower	1/4 oz.	24 to 30	20 to 24	1/2	25 to 30 head	1 pkt.
Celery	1/8 oz.	24 to 40	4 to 6	1/4	75 to 100 stalks	1 pkt.
Collards	1/4 oz.	24 to 30	14 to 18	1/2	3 bu.	1 pkt.
Corn, Sweet	4 oz.	30 to 42	9 to 12	1	100 ears	1 lb.
Corn, Pop	3 oz.	34 to 40	6 to 8	1		
Cucumber	1/2 oz.	48 to 60	12 to 36	1/2 to 3/4	75 to 100 fruit	1/2 oz.
Dill	1/4 oz.	18 to 36	4 to 8			
Egg Plant	1/8 oz.	24 to 36	18 to 24	1/2	70 to 80 fruit	1 pkt.
Endive	1/2 oz.	18 to 24	8 to 12	1/2	50 to 60 plants	1 pkt.
Kale	1/2 oz.	24 to 32	14 to 22	1/2	50 plants	1 pkt.
Kohlrabi	1/4 oz.	14 to 24	4 to 6	1/2	1 bu.	1 pkt.
Leek	1/4 oz.	12 to 42	2 to 4	3/4		1 pkt.
Lettuce	1/4 oz.	12 to 18	4 to 12	1/4	25 lbs.	2 oz.
Muskmelon	1/2 oz.	70 to 80	36 to 60	3/4	50 to 60 fruit	1 pkt.
Mustard	1/4 oz.	14 to 24	6 to 9	1/2	1 to 1 1/2 bu.	1/2 oz.
Okra	1 oz.	36 to 48	24	1	450 pods	1 pkt.
Onion	1/4 oz.	18 to 24	3 to 4	3/4	1 bu.	1/2 oz.
Onion (for sets)		12 to 14	not thinned	3/4	30 scallions	
Onion sets	1 pt.	12 to 18	2	1	60 bunches	1 qt.
Parsley	1/4 oz.	12 to 20	6 to 8	1/2	45 bunches	1 pkt.
Parsnips	1/2 oz.	18 to 24	3 to 4	1/2	1 bu.	1/2 oz.
Peas	3/4 lb.	24 to 36	1 to 2	1 to 2	30-50 qts. pods	3 lbs.
Peppers	1/8 oz.	20 to 30	18 to 20	1/2	25 doz. peppers	1 pkt.
Pumpkin	2 oz.	96 to 108	60 to 84	3/4	25 to 35 fruit	1 pkt.
Radish	1/2 oz.	12 to 18	1 to 2	1/2	50 bunches	3 oz.
Rhubarb	1/2 oz.	24 to 48	18 to 24			
Rutabaga	1/8 oz.	18 to 24	6	1/2 to 1		1 pkt.
Salsify	1/2 oz.	18 to 24	2 to 4	1/2		1 pkt.
Spinach	3/4 oz.	14 to 18	3 to 5	3/4	1 1/2 bu.	1 oz.
Spinach, N.Z.	1/2 oz.	30 to 36	12 to 18	1	35 to 50 lbs.	1 oz.
Squash, Summer	1/4 oz.	36 to 48	48 (4 seeds)	1	60 to 70 squash	1 pkt.
Squash, Winter	1/4 oz.	72 to 90	72 (4 seeds)	1	35 to 40 squash	1 pkt.
Swiss Chard	1/2 oz.	12 to 18	4 to 6	1	25 lbs.	1 oz.
Tomato	1/6 oz.	40 to 60	36 to 40	1/2	2 bu.	1 pkt.
Turnip (roots)	1/4 oz.	18 to 24	2 to 4	1/4	1 bu.	1/2 oz.
Turnip (greens)	1/2 oz.	12 to 18	2 to 4	1/4	1 1/2 bu.	1 oz.
Watermelon	1/2 oz.	72 to 96	72 to 96	3/4	20 fruit	1 pkt.

SQUASH, Continued

Zucchini—Straight, cylindrical fruits, 3 to 4 lb., 5 to 5-in. through, 10 to 14-in. long. Mottled and striped green-creamy-gray. Delicate flavored flesh. 60 days.

Fall and Winter Varieties

Banana—Cylindrical and pointed at blossom end. Thin, gray rind. Thick flesh, fine grained, yellowish orange and of sweet flavor. 105 days.



BANANA SQUASH

Buttercup—Cylindrical; weight 3½ lb. Rind thin and touch, dark green with gray stripes, slight mottling. Flesh orange, dry and well flavored.

Improved Green Hubbard (fr)—Most widely grown of any winter squash. Round, warted, dark green with thick yellow flesh. Weight 12 to 14 lbs. 100 days.

Marblehead—One of best commercial sorts. Resembles Green Hubbard somewhat in size and shape. Color bluish-gray; flesh bright creamy yellow. Fine grained, dry sweet. An excellent keeper for winter use.

Table Queen or Des Moines (fr)—Acorn-shaped, green, deeply furrowed; flesh rich yellow, dry, mealy, delicious. Convenient size for baking and serving in halves. 100 days.



TABLE QUEEN SQUASH

SWISS CHARD

(See Beets, Leaf)

TOMATOES

Do best in sandy, well pulverized loam. Sow seed in hotbed or indoors. When plants are about 2" high, set out, 3" apart, in boxes or pots—later transplant into the garden. Or keep in flats until all danger of frost is past, and then set plants out directly into the garden. Water around the roots of the plants when setting them out, if ground is dry. Cultivate frequently until plants shade the ground. Remove all but the two or three strongest branches. Study methods of staking and training vines and adopt the one best suited to your situation.

Bonny Best—Second early variety, valuable for canners. Medium-vine, not very

hardy. Medium-sized, apple-shaped, solid fruits, bright scarlet. 73 days.

Earliana—Open, spreading, medium small vines. Red fruits run to medium size. This seed is selected for thick, smooth fruit. 66 days.

Jubilee—Orange colored fruit. Juicy with few seeds. Weighs about 6 oz. Bears over a long season. 72 days.

Marglobe—Moderately productive, with heavy foliage. Vigorous and resistant to wilt and rust. Fruits medium large, nearly round, smooth, and solid. Deep red. 77 days.

Pritchard's, Scarlet Topper—Medium to large, round, with thick, firm flesh and small seed cavities. Brilliant red throughout, coloring right to top, without hard green spots. Free from acidity, one of the best home canners. Early.

Rutgers—Second early variety. Large thick stems, vigorous foliage. Fruits similar to Marglobe but flatter at stem end. Bright red, with thick walls. Red, firm flesh, low acidity. 72 days.

Scarlet Dawn (fr) (c)—All-America variety. Medium plant growth. No warts or flat sides. Bright scarlet to stem when mature.



BONNY BEST TOMATOES

Stokesdale—An extremely important new development. Smooth, 7-oz. fruit, brilliant color, exceedingly solid flesh and small seed cavities. Matures in the second-early group, a full week earlier than the Marglobe group. Usually ahead of Bonny Best, too—and 2 ounces heavier.

The Old Gardener on TOMATOES

Tomatoes are the Number One crop in home gardens, raised by almost everybody. For some good information on how to grow them, see Vegetable Seed Culture.

If you had trouble with disease, as so many folks did last year, try some of the newer disease-resistant kinds like Marglobe, Pritchard, and Rutgers. Even folks who don't like tomatoes ordinarily will go for Jubilee, the big orange variety that looks just like a California orange. It's as mild in flavor as an apple and full of natural sugar. Try slicing it on the same plate as the red varieties.

To stake or not to stake is often a question. If you do insist upon staking, don't use Earliana or Pritchard, since

All Vegetable Seeds
10¢ PER PACKET
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Victor—Smooth, round deep scarlet fruits, 3 inches in diameter. Recommended as first early variety for home and market. An All-America variety. 65 days.

Small Fruited

Ground Cherry—Small yellow fruit enclosed in a husk. Very sweet, prized for eating, making pies and preserves.

Red Cherry—Small round fruits, ½ inch in diameter. For salads and pickling.

Yellow Plum—About 2 in. long. Shaped like a plum. Light yellow in color.

TURNIP

For summer greens or roots, sow as early as radishes and lettuce. Then cut when plants are 1" high. Sow again in summer for fall and winter use. Turnips do best when most of their growth is made in autumn or early spring. Should be grown rapidly for best flavor and texture.

Cowhorn—Long white variety used principally for stock food. Tender and sweet for table use when young. Tapered; 12-15 in. 65 days.

Golden Ball or Orange Jelly—Medium size, deep yellow with bronze-green top. Creamy yellow flesh of fine texture. 65 days.

Purple Top White Globe (fr)—All purpose variety. Large, sweet tops. Smooth, globe-shaped roots, purple-red above, white below. Sweet, tender, crisp, white flesh. 50 to 60 days.

Purple-Top Strap Leaf—Home and market garden variety. Deep purplish-red on top, white below. Flesh white and never stringy.

White Egg—Cut leaved, medium sized, upright tops. Egg shaped roots, all white. Smooth grained. 55 to 60 days.

Rutabaga or Swede Turnip

American Purpletop—Hardy and productive. Tender firm, light yellow, sweet flesh. 88 days.

they won't make enough vine for this method of training.

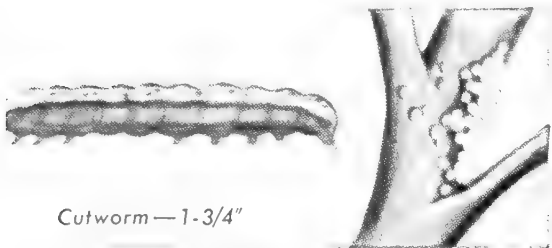
Above all, if you do grow early varieties, be sure to add one of the heavy producing main crop sorts like Rutgers so you'll have plenty of tomatoes for canning and for use when the early varieties are through.

Feeding: The safest plan for feeding tomato plants is to use balanced plant food. Apply it as a side dressing at regular intervals. Don't use poultry manures. They cause a long, sappy plant growth, with very little fruit. If any animal fertilizers are used, they need balancing—by addition of superphosphate and muriate of potash. Without these necessary elements, the crop may be poor.



A Portrait Gallery of Garden Insects

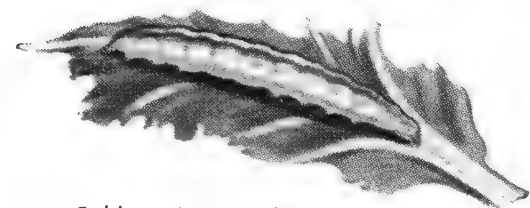
We are proud to present a series of true natural color portraits of common garden insects. USE THESE PICTURES to identify pests in your garden. Report them to us by name. We'll prescribe the right insecticides



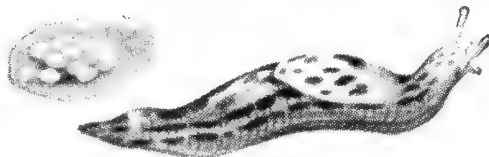
Cutworm—1-3/4"



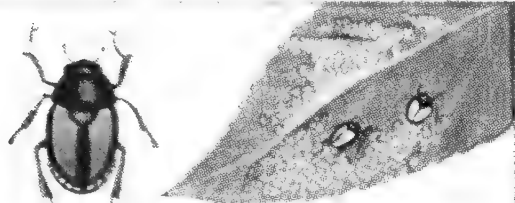
Tomato Hornworm—3" to 4"



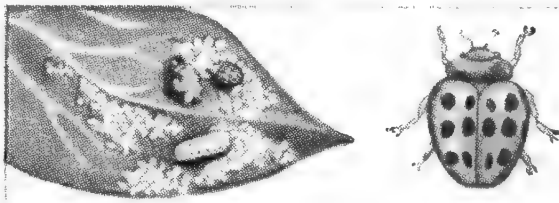
Cabbage Worm—1"



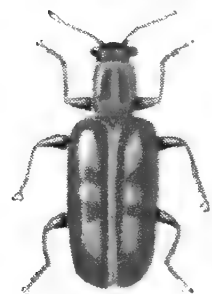
Giant Slug—4" or more



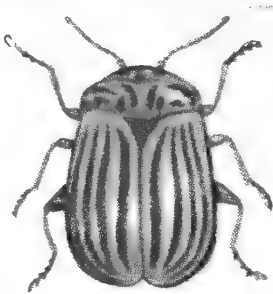
Japanese Beetle—1/2"



Mexican Bean Beetle—5/16"



Asparagus Beetle—7/32"



Potato Beetle—3/8"



Potato Flea Beetle—1/16"



Bean Weevil—1/8"



Chinch Bug—3/16"



Tarnished Plant Bug—1/4"



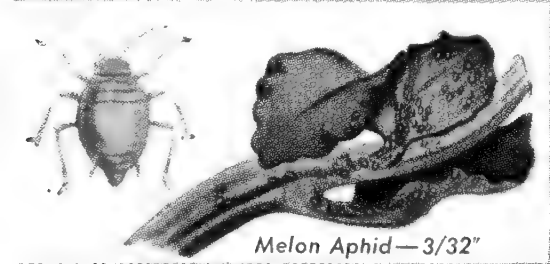
Red Spider Mite—1/60"



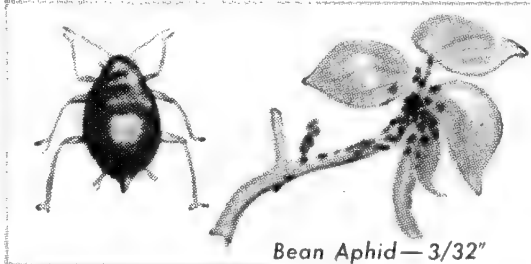
Rose Chafer—3/8"



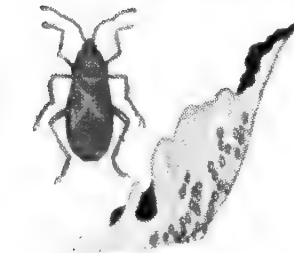
Beet Leafhopper—1/8"



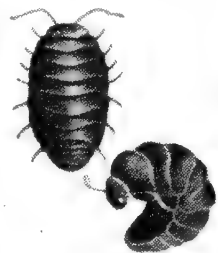
Melon Aphid—3/32"



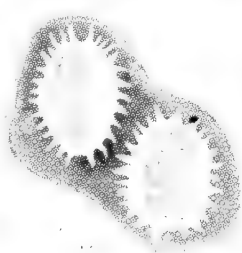
Bean Aphid—3/32"



Squash Bug—5/8"



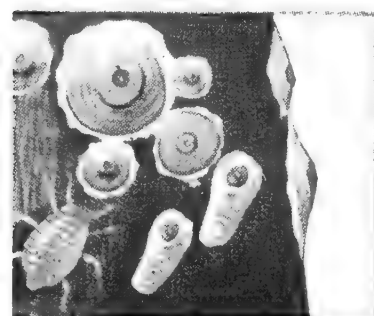
Sow Bug—1/2"



Mealy Bug—3/16"



Gladiolus Thrip—1/16"



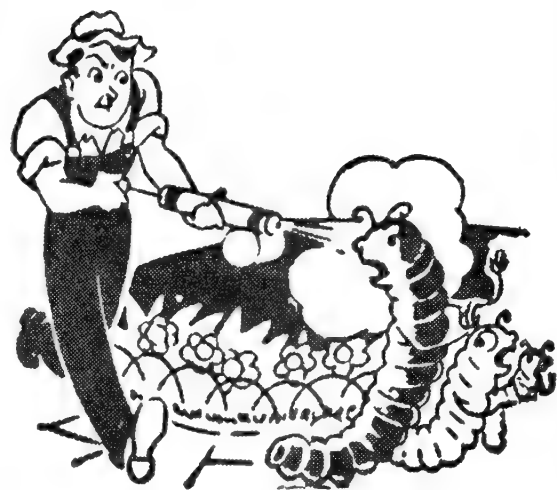
22 San Jose Scale



Corn Earworm—2"



Oyster-shell Scale



**"TOGETHER
we can beat 'em!"**

Garden insects really aren't so tough—when you get to know them!

Once they are identified, there's almost always a quick way to defeat them.

That's why we have brought you this unique series of portraits of commonly encountered enemies of the garden. (We have pictured them in full, natural color, so that there may be no mistake in your identifications.)

If you'll just use these pictures as a reference guide—you can soon put a stop to the attack of these pests. We know, from long experience, just how to handle them. We know which insecticide is best for each situation—and we have it on hand, ready for you.

The new insecticides

The scientists have made great progress, during the last few years, in their battle against the bugs. They have made gardening easier than ever; they have insured better results.

We keep a very close watch on the new developments. We assay them very carefully. Hence, we know exactly which new formulas have proved themselves—and what they can do.

This practical knowledge is at your service, whenever you need it!

**REMEMBER —
FOR INSECTICIDES
ALWAYS
SEE THE SEEDSMAN!**

Vitamins

This nation has the finest food supply in the world. Yet nutrition experts have proved that most of us are poorly nourished. As we all know now, even our "three good squares a day" often do not give us certain minerals and vitamins that we need . . . now more than ever.

These necessary elements may be bought at the drug store. But they can also be home grown, at far less cost! Garden fresh vegetables can provide nearly all of them, in ample quantity.

VITAMIN VALUES

A guide to the vitamin contents of garden vegetables

(Values below indicate vitamins in one-half cup (3.5 oz.) servings of garden vegetables.)

Average Vitamin Pill	Vitamins International and Sherman Units			
	A 1650	B1 110	C 200	G 165
Beans, Green	1000	25	300	40
Beets	35	—	100	50
Beet greens	12000	—	1000	150
Broccoli	9000	37	1400	75
Brussels Sprouts	200	60	1500	—
Cabbage	100	25	1200	20
Carrots	2100	20	100	20
Cauliflower	30	50	1500	35
Celery, bleached	10	10	100	—
Celery, green	1000	10	100	10
Collards	7000	50	800	100
Corn, White	50	45	200	—
Corn, Yellow	500	45	200	20
Cucumber	20	15	200	8
Endive (escarole)	15000	28	400	40
Kale	20000	50	2500	200
Lettuce, head	100	25	250	15
Lettuce, loose-leafed	4000	25	250	75
Lima Beans, green	500	115	600	100
Mustard greens	13000	45	2500	375
Onions	—	25	275	28
Peas	1000	140	500	65
Peppers	5000	10	2500	40
Potatoes, sweet	3500	30	400	30
Potatoes, white	30	40	250	15
Spinach	25000	40	1500	125
Squash, summer	1000	15	—	5
Squash, winter	4000	15	100	25
Tomato	1000	25	450	15
Turnip	20	12	600	12

Many gardeners like to govern their planting by the phases of the moon. For them, we show here all the necessary information generally shown by more voluminous

arrangements. As seedsmen, we cannot vouch for the effectiveness of this method, but we are glad to provide this complete and up-to-date chart for those who want it.

Signs of the Zodiac and Their Influence

♈ ARIES: Tends to dryness, barrenness. Fairly good for cultivating, spraying and weeding.
♉ TAURUS: Fairly productive. A good sign for planting root crops particularly potatoes and bulbous plants.
♊ GEMINI: Dry and barren. Not good for any kind of planting or transplanting. Kill noxious growths.
♋ CANCER: Moist, very fruitful, most productive of the Zodiac. Planting and transplanting should yield good crops. Irrigate, bud, graft, transplant.

♌ LEO: Most dry and barren sign. Use only to kill weeds, destroy roots, etc.
♍ VIRGO: Moist but barren. Not recommended for planting or transplanting; good for cultivating and destroying.
♎ LIBRA: Fairly fruitful. Seed for hay, corn, fodder, etc. Produces vigorous pulp growth, reasonable amount of grain. Good for flowers.
♏ SCORPIO: Next to Cancer in productiveness. Irrigate but do not dig potatoes.

♐ SAGITTARIUS: Generally considered barren but used by many for onions, seeding for hay, destroying weeds, etc.
♑ CAPRICORN: Earthly, fairly productive. Similar to Taurus but drier. Bulbous flowers, potatoes, tubers, root crops.
♒ AQUARIUS: Somewhat barren. Good only for cultivation and extermination of pests.
♓ PISCES: Similar to Cancer so use for same purposes. Very productive. Do not dig potatoes.

When to Plant

The table below shows when the moon enters each sign of the Zodiac. It also shows the moon's changes. Under each month, we show first the time at which the moon enters each SIGN (day of the month and hour of the day, Central Standard Time). Then we show the moon CHANGES (day and hour) for each month.
● 1st QUARTER, MOON INCREASING—During 1st Quarter of Moon plant the following: Asparagus, Broccoli, Brussels Sprouts, Cab-

bage, Cauliflower, Celery, Corn, Cucumbers, Endive, Kohlrabi, Leeks, Lettuce, Spinach, Barley, Oats, Rye, Wheat.
☾ 2nd QUARTER, MOON INCREASING—During 2nd Quarter of Moon plant the following: Beans, Egg Plant, Melons, Peas, Peppers, Pumpkins, Squash, Tomatoes, flowers, and cereals.
When possible, plant seed while the Moon is in the fruitful signs of Cancer, Scorpio or Pisces. The next

best signs are Taurus, Libra and Capricorn.
☾ 3rd QUARTER, MOON DECREASING—During 3rd Quarter of Moon plant the following: Beets, Carrots, Chicory, Parsnips, Potatoes, Radishes, Rutabagas, Onions, Turnips, Tubers.
☾ 4th QUARTER, MOON DECREASING—In 4th or Last Quarter of the Moon turn sod, pull weeds, and destroy noxious growths, especially when Moon is in barren signs, Gemini, Leo, Virgo or Aquarius.

1948 — Moon's Phases and Positions — 1948

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
2 ♌ 8:15a. 4 ♍ 1:53p. 6 ♎ 10:42p. 9 ♏ 9:43a. 11 ♐ 9:55p. 14 ♑ 10:35a. 16 ♒ 10:42p. 19 ♓ 8:38a. 21 ♈ 2:58p. 23 ♉ 5:22p. 25 ♊ 4:59p. 27 ♋ 3:56p. 29 ♌ 4:31p. 31 ♍ 8:30p.	3 ♈ 4:31a. 5 ♉ 3:31p. 8 ♊ 4:00a. 10 ♋ 4:37p. 13 ♌ 4:36a. 15 ♍ 3:07p. 17 ♎ 10:53p. 20 ♏ 3:04a. 22 ♐ 4:03a. 24 ♑ 3:23a. 26 ♒ 3:09a. 28 ♓ 5:30a.	1 ♈ 11:45a. 3 ♉ 9:52p. 6 ♊ 10:14a. 8 ♋ 10:53p. 11 ♌ 10:32a. 13 ♍ 8:39p. 16 ♎ 4:41a. 18 ♏ 10:10a. 20 ♐ 0:56p. 22 ♑ 1:42p. 24 ♒ 2:00p. 26 ♓ 3:52p. 28 ♈ 8:48p. 31 ♉ 5:38a.	2 ♊ 5:20p. 5 ♋ 5:54a. 7 ♌ 5:29p. 10 ♍ 2:56a. 12 ♎ 10:17a. 14 ♏ 3:43p. 16 ♐ 7:16p. 18 ♑ 9:31p. 20 ♒ 11:17p. 23 ♓ 1:53a. 25 ♈ 6:36a. 27 ♉ 2:23p. 30 ♊ 1:17a.	2 ♋ 1:43p. 5 ♌ 1:26a. 7 ♍ 10:44a. 9 ♎ 5:19p. 11 ♏ 9:37p. 14 ♐ 0:38a. 16 ♑ 3:15a. 18 ♒ 6:08a. 20 ♓ 9:58a. 22 ♈ 3:23p. 24 ♉ 11:10p. 27 ♊ 9:33a. 29 ♋ 9:46p.	1 ♌ 9:53a. 3 ♍ 7:44p. 6 ♎ 2:02a. 8 ♏ 5:26a. 10 ♐ 7:11a. 12 ♑ 8:49a. 14 ♒ 11:35a. 16 ♓ 4:03p. 18 ♈ 10:31p. 21 ♉ 6:53a. 23 ♊ 5:15p. 26 ♋ 5:24a. 28 ♌ 5:56p.
Changes ☾ 3 5:13a. ● 11 1:44a. ☾ 19 5:32a. ☾ 26 1:11a.	Changes ☾ 1 6:31p. ● 9 9:02p. ☾ 17 7:55p. ☾ 24 11:16a.	Changes ☾ 2 10:35a. ● 10 3:15p. ☾ 18 6:27a. ☾ 24 9:10p.	Changes ☾ 1 4:25a. ● 9 7:16a. ☾ 16 1:42p. ☾ 23 7:28a. ☾ 30 10:48p.	Changes ● 8 8:30p. ☾ 15 6:55p. ☾ 22 6:37p. ☾ 30 4:43p.	Changes ● 7 6:55a. ☾ 13 11:40p. ☾ 21 6:54a. ☾ 29 9:23a.
JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 ♍ 4:39a. 3 ♎ 11:48a. 5 ♏ 3:06p. 7 ♐ 3:54p. 9 ♑ 4:04p. 11 ♒ 5:31p. 13 ♓ 9:28p. 16 ♈ 4:11a. 18 ♉ 1:13p. 21 ♊ 0:03a. 23 ♋ 0:12p. 26 ♌ 0:57a. 28 ♍ 0:33p. 30 ♎ 9:01p.	2 ♏ 1:20a. 4 ♐ 2:14a. 6 ♑ 1:33a. 8 ♒ 1:30a. 10 ♓ 3:56a. 12 ♈ 9:49a. 14 ♉ 6:51p. 17 ♊ 6:02a. 19 ♋ 6:23p. 22 ♌ 7:05a. 24 ♍ 7:03p. 27 ♎ 4:39a. 29 ♏ 10:34a. 31 ♐ 0:42p.	2 ♑ 0:21p. 4 ♒ 11:36a. 6 ♓ 0:34p. 8 ♈ 4:51p. 11 ♉ 0:56a. 13 ♊ 11:58a. 16 ♋ 0:27a. 18 ♌ 1:01p. 21 ♍ 0:45a. 23 ♎ 10:40a. 25 ♏ 5:45p. 27 ♐ 9:35p. 29 ♑ 10:41p.	1 ♒ 10:30p. 3 ♓ 10:58p. 6 ♈ 1:55a. 8 ♉ 8:30a. 10 ♊ 6:42p. 13 ♋ 7:03a. 15 ♌ 7:36p. 18 ♍ 6:54a. 20 ♎ 4:14p. 22 ♏ 11:21p. 25 ♐ 4:10a. 27 ♑ 6:53a. 29 ♒ 8:16a. 31 ♓ 9:32a.	2 ♓ 0:11p. 4 ♈ 5:39p. 7 ♉ 2:41a. 9 ♊ 2:33p. 12 ♋ 3:12a. 14 ♌ 2:24p. 16 ♍ 11:02p. 19 ♎ 5:11a. 21 ♏ 9:32a. 23 ♐ 0:48p. 25 ♑ 3:33p. 27 ♒ 6:19p. 29 ♓ 9:52p.	2 ♈ 3:16a. 4 ♉ 11:31a. 6 ♊ 10:45p. 9 ♋ 11:29a. 11 ♌ 11:09p. 14 ♍ 7:44a. 16 ♎ 1:01p. 18 ♏ 4:04p. 20 ♐ 6:19p. 22 ♑ 8:59p. 25 ♒ 0:39a. 27 ♓ 5:29a. 29 ♈ 11:47a. 31 ♉ 8:08p.
Changes ● 6 3:09p. ☾ 13 5:30a. ☾ 20 8:31p. ☾ 29 0:11a.	Changes ● 4 10:13p. ☾ 11 1:40p. ☾ 19 11:32a. ☾ 27 0:46p.	Changes ● 3 5:21a. ☾ 10 1:05a. ☾ 18 3:43a. ☾ 25 11:07p.	Changes ● 2 1:42p. ☾ 9 4:10p. ☾ 17 8:23p. ☾ 25 7:41a.	Changes ● 1 0:02a. ☾ 8 10:46a. ☾ 16 0:31p. ☾ 23 3:22p. ● 30 0:44p.	Changes ☾ 8 7:57a. ☾ 16 3:11a. ☾ 22 11:12p. ● 30 3:44a.

NECTARBERRIES

Delightful New Taste Thrill



The delightful flavor of the Nectarberry carries the tang of the Youngberry and the pleasing taste of the Raspberry. It is somewhat sweeter than the Boysenberry and therefore preferred by many who object to the sour taste of many other berries. It is also less acid and can be enjoyed by diabetics.

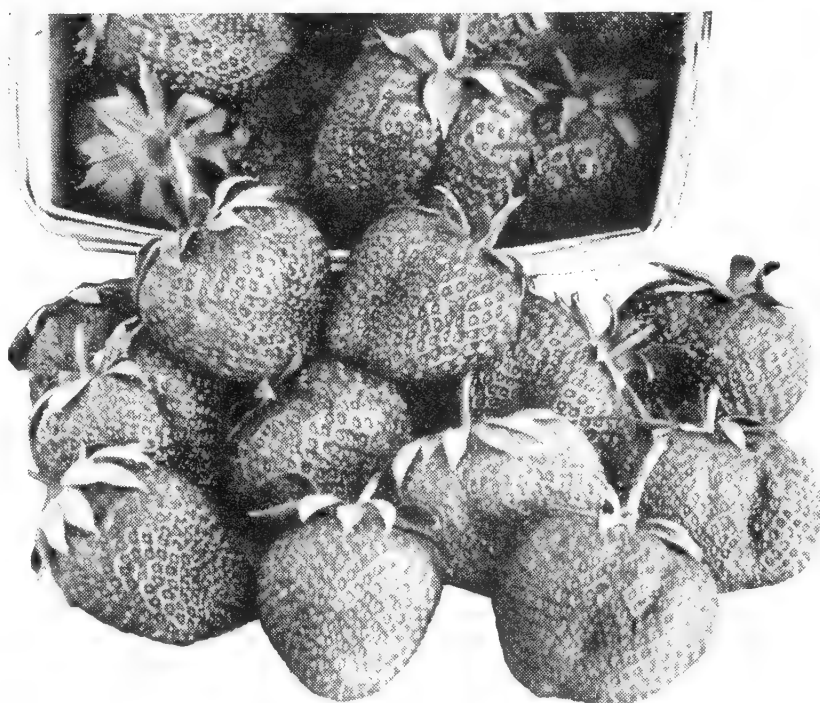
Mammoth in size, Nectarberries run $1\frac{1}{2}$ to $1\frac{3}{4}$ in. long and an inch through. Ripe berries are very dark wine (almost black) in color. Practically seedless. Excellent for jams and jellies and without peer served fresh with cream. The Nectarberry has proved hardy under both drought and cold. Wintered successfully in Washington without injury though not mulched.

Our plants come to us from a dependable grower who has made a specialty of growing berries. We guarantee strong, true-to-type plants in 1-year tips. Plants are carefully packed to insure safe delivery. The demand will be heavy . . . do not delay your order.

Each plant 35c, 3 plants \$1.00

STRAWBERRIES

Fresh From Your Garden



ROCKHILL EVERBEARING—Distinctly flavored. Bears a good crop over a long period starting after the early types and producing well up to frost.

25 plants \$3.00, 100 plants \$9.50

IMPROVED MARSHALL—The leading early commercial variety. Large berries of fine flavor. Splendid for freezing.

12 plants 45c, 100 plants \$2.50

BRIGHTMORE—Round, conic shaped fruit. Resistant to Yellows disease. Yield runs as high as 8 tons per acre. Excellent for market and freezing.

25 plants \$1.50, 100 plants \$4.00

STREAMLINER—Earlier than other everbearers. Produces from early August until severe frost. Large, sweet fruit. Very productive in various types of climate and soil. Good shipper and fine for canning and freezing.

12 plants \$1.25, 25 plants \$2.00
50 plants \$3.50, 100 plants \$6.00

Many other varieties will be available in the spring.

ABOVE PRICES POSTPAID—1st and 2nd ZONES.

VEGETABLE PLANTS

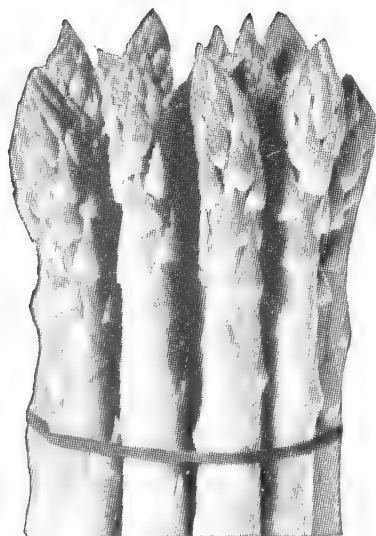
Enjoy earlier vegetables this year by setting out sturdy, well-started plants. Our plants are healthy and husky from 2-year old stock . . . not seedlings. This is the way to a better, quicker yield.

ASPARAGUS

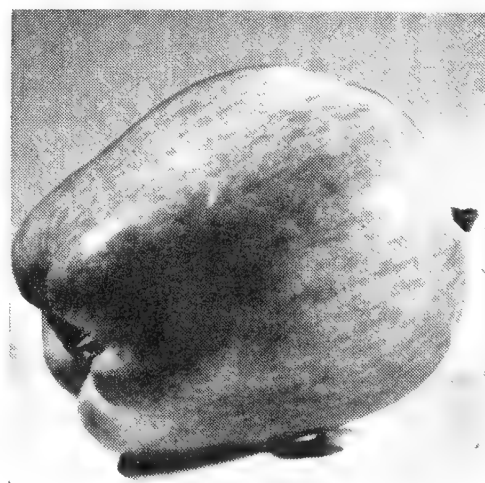
Mary Washington variety. Produces tender, green, medium-size shoots. Popular throughout the northwest. Very good for freezing.

12 plants 55c

Quantity prices on request



FRUIT TREES



We can supply all popular varieties at popular prices. All are vigorous growers assuring an abundance of fruit. Let us know your requirements.

SEED POTATOES

We have all of the well-proved varieties at market prices.

RASPBERRIES

Delicious Fresh Or Preserved



NEW WASHINGTON—A new raspberry that is gaining in popularity each year. Heavy producer. Slightly larger, firmer and brighter in color than the Cuthbert variety. Fine for home garden and shipment. Transplanted plants.

Each plant 20c, 10 plants \$1.75

CUTHBERT—This is the leading red raspberry. Strong, abundant bearer. Large, beautiful deep crimson berries of the most pleasing flavor. Fine for home use and shipment. Transplanted plants.

Each plant 15c, 10 plants \$1.20

OTHER BERRIES

BLUEBERRIES—We have a large selection including hybrids and popular named varieties.

Each plant from \$1.50 up
Quantity prices on request

OREGON CHAMPION GOOSEBERRIES—Light green skin. Very sweet and juicy. Prolific bearer. Will not mildew. Heavy 2-year plants.

Each plant 35c, 10 plants \$3.00

CHERRY CURRANTS—The largest of all red currants. Very vigorous and productive plant when grown in good, well-cultivated soil. Large, strong plants.

Each plant 35c, 10 plants \$2.50

PLAN YOUR PLANTING FOR CANNING AND FREEZING

Load the shelves with plenty of vitamin-packed foods from your own garden.

Planning is the basic element of successful gardens and farms. Of course, you'll want to plant plenty to keep your family well supplied with necessary vitamin-fresh fruits and vegetables during the garden season. But don't forget, there's a long winter ahead, too! That's the time when you'll be glad you planned for plenty of canned and frozen fruits and vegetables.

Fresh fruits and vegetables, taken from your own garden at the peak of perfection, are the finest "health insurance" you can provide.

FLOWER PLANTS

Annuals and Perennials



Just imagine your garden in full bloom with beautiful bright patches of color. We have the plants to make this dream come true—both annuals and perennials in great variety. All of the plants we offer are healthy and hardy, assuring you of brilliant beauty in your garden this year.

Come in and see our selection of flower plants, or write to us concerning your needs.

ASK ABOUT ITEMS NOT LISTED

We have available a great variety of fruit, vegetable and flower plants not listed here. See us or write to us about your needs.

Haeger Pottery

Flower Fun

THROUGHOUT
THE YEAR



Brighten your home with charming arrangements of flowers and branches in lovely, colorful Haeger Pottery. Make it a point to come in soon and see our large selection of Haegerware.

BULBS and TUBERS

GLADIOLUS

Bagdad—Smoky old rose, deeper at edge of throat, lighter in throat. 6 to 8 immense blooms open at one time.

Beacon—Clear bright scarlet, with large creamy throat blotch. 8 to 10 medium size florets, moderately ruffled.

Bit o' Heaven—Very nice orange with yellow throat. Opens 9 to 12 medium sized blooms on tall, straight spike.

Blue Beauty—Light blue, edges of petals lined with violet-blue. Throat somewhat lighter on upper petals, darker on lower.

Corona—Creamy white with halo of rose stippling on edge of petals. Opens 6 large rather loosely attached blooms on a head of about 19 buds.

Dream o' Beauty—Large rose red. A very popular shade. Tall strong grower. Often a double row of flowers.

Elizabeth the Queen—Clear mauve-ruffled flowers with dark lines in the throat. Large, fine form and opens 7 to 8 blooms at a time.

Gold Dust—New deep yellow, early. Medium sized blooms on tall spikes.

Golden Dream—Clear deep yellow. Midseason. Very tall spike with many flowers open at one time. Distinctive.

King Arthur—Immense ruffled rosy lavender of a distinct form and color. 4 or 5 blooms at a time.

King Lear—Clear deep reddish purple with silver line on edge of petals. Extremely large, heavily ruffled. Early.

Margaret Beaton—Huge snowy white florets with a very small vermilion-pink blotch deep in throat.

New Europe—Vivid garnet red with small purple stripe in throat. Enormous florets, 10 open at one time.

Phyllis McQuiston—Large deep glowing shrimp pink shading a little lighter in throat; 5 or more open on long spike.

Picardy—Soft shrimp pink without flecking. Blotch of flesh pink shading to shrimp pink at edges. Soft inconspicuous feathering of rose. Very large.

Red Lightning—Bright pleasing red with cream blotch in the throat.

Rewi Fallu—Deep blood-red very large blooms on tall straight spike. Early.

Rosa Van Lima—Light rose with a few lines in throat. Up to 8 or more large blooms open on tall strong spike.

Shirley Temple—Lovely cream with dark throat. Immense ruffled blossoms on long strong spike. Midseason.

Snow Princess—New fine white of good size and form. Many open blooms, perfectly placed. Stems never crook.

Stoplight—New brilliant red, lightly ruffled blooms, flat and wide open. Consistent performer and heat resistant.

Sweet Alibi—Deep geranium-pink. Magnificent large wide, ruffled florets on tall straight, strong spike.

Vagabond Prince—An unusual iridescent garnet brown color, lighter in upper throat and with small blotch of glowing flame scarlet on lip petal.

DAHLIAS

Key to Types

ID — Informal Decorative

FD — Formal Decorative

SC — Semi-Cactus

California Idol, ID—Clear lemon yellow. Deep flowers with high full centers. Strong bush, profuse bloomer.

Dixie's Wine Dot, ID—A delightful variegated Dahlia. White wavy petals, flecked and dotted rosy magenta.

Darcy Sainsbury, FD—Large pure white. Good stems that hold flowers facing. Withstands heat.

Evelyn Chandler, FD—Golden apricot. The large blooms are way above bush on very stiff stems.

Jean Trimbee, SC—Beautiful Petunia purple. Massive yet artistic with long revolute petals that curl and twist.

Mrs. Geo. Le Boutellier, FD—One of the largest bright reds, but blooms are a little heavy for the stems.

Monarch of the East, FD—Extra large candium yellow blooms with coral red shading on reverse. Come partly on top of cane like stems. Robust.

Rose Glory, FD—Large deep old rose on good stems. Fine keeper.

Town Topic, FD—Magenta purple with some blooms tipped white. Tall bush with 9-in blooms on stiff stems.

Miniature Dahlias—Lovely 3- to 4-in. blossoms, just like the large ones in form and shape. All have good stems. A wide range of colors. Try them!

Pompon Dahlias—Charming "button" dahlias that require little care. Gorgeous cut flowers. In mauve, pinks, red, white, bronze, yellow.

Short supplies of many Dahlia varieties this year may make it impossible for us to keep all listed varieties in stock. We will, however, have representative assortments of the best and most popular varieties available.

CANNAS

King Humbert—(Orchid-flowering). Orange-scarlet with bright red markings; deep bronze foliage. 4 feet.

Yellow King Humbert—Beautiful yellow with red spots. 4 feet.

President—Immense bright red in large clusters. Green foliage. 4 feet.

Hungaria—Large dainty rose-pink, frequently edged cream. 4 feet.

Wintzer's Colossal—Largest flowering. Vivid, blazing scarlet. Green foliage.

CALADIUM

Fancy-Leaved—Rich ornamental leaves, marked, veined and striped with white, pink and dark red.

Elephant's Ear—One of the largest ornamental plants for beds and borders. Huge green leaves give unusual effect.

TUBEROSES

One of the most fragrant of all flowers. Tall spikes of white blooms.

BULB AND TUBER PRICE LIST

DAHLIAS

California Idol	Ea. \$.75
Dixie's Wine Dot	Ea. \$1.50
Darcy Sainsbury	Ea. .75
Evelyn Chandler	Ea. \$1.00
Thomas Edison	Ea. .50
Mrs. Geo. Le Boutellier	Ea. .50
Monarch Of The East	Ea. \$1.00
Rose Glory	Ea. .50
Town Topic	Ea. \$1.00

DAHLIA SPECIALS

Assorted Miniatures—6 types, labeled	6 for \$2.60
Assorted Miniatures—6 types, labeled, \$4.00 value. Postpaid	6 for \$3.25
Assorted Pon Poms—6 types, labeled	6 for \$1.75
Assorted Large Sizes—6 types, labeled	6 for \$2.85

CANNAS

King Humbert	Ea. \$.15
Yellow King Humbert	Ea. .15
President	Ea. .15
Hungaria	Ea. .15

CALADIUM

Fancy-leaved	Ea. \$.40
Elephant's Ear	Ea. .40

LILIES

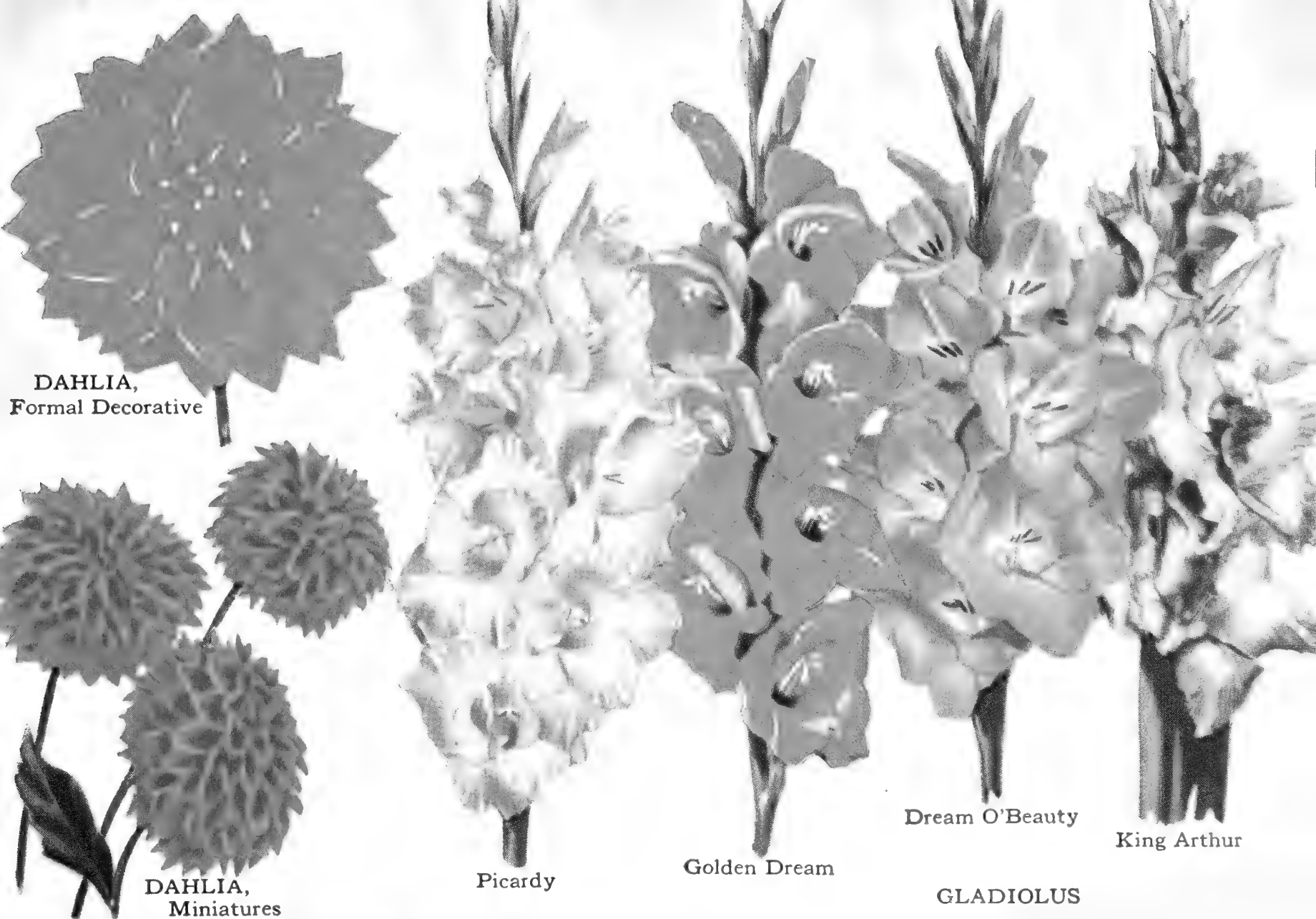
Regale—Large choice stock. Special. 6 for \$2.65

GLADIOLUS

Bagdad	Doz. \$.78
Beacon	Doz. .78
Bit O' Heaven	Doz. .78
Blue Beauty	Doz. .78
Corona	Doz. \$1.25
Dream O' Beauty	Doz. .78
Elizabeth The Queen	Doz. \$1.25
Gold Dust	Doz. .78
Golden Dream	Doz. .78
King Arthur	Doz. \$1.00
King Lear	Doz. \$1.25
Margaret Beaton	Doz. .78
Marguerite	Doz. \$1.50
Phyllis Mc Quiston	Doz. .78
Picardy	Doz. .78
Red Lightning	Doz. \$1.00
Rewi Fallu	Doz. \$1.00
Rosa Van Lima	Doz. .78
Shirley Temple	Doz. .78
Snow Princess	Doz. .78
Stoplight	Doz. \$1.25
Sweet Alibi	Doz. \$1.00
Vagabond Prince	Doz. .78
Assorted Colors	Doz. .97

TUBEROUS BEGONIAS

Top Size—In 3 or more types. Doz. \$4.00



DAHLIA,
Formal Decorative

DAHLIA,
Miniatures

Picardy

Golden Dream

Dream O'Beauty

King Arthur

GLADIOLUS

HOW? WHEN? WHERE? WHY?

For better blooms from bulbs

GLADIOLUS

Perhaps the most useful of all summer-flowering bulbs. Excellent to fill in places where perennials have died, or where annuals have failed. When used in this way, need no care other than that given the other garden flowers. Do not use extra fertilizer; too much food promotes production of bulbils or offsets at the expense of good bloom and of a sound center bulb.

Gladiolus bulbs can be planted at any time from earliest spring until July first (if sound bulbs are on hand that late). Before planting, treat bulbs for thrips (ask for information). In light soil, plant 5" to 6" deep. This will help support the flower spike which might otherwise fall over. In heavy soil, 4" deep is correct. If planted too shallow, more bulbils will be produced, but not as good flowers. Space 6" apart in rows 24" apart, though for smaller, older sorts, 4" may be enough room to allow.

Regular spraying to control thrips is essential wherever this insect pest has been seen. If your flowers failed to develop properly last year, and if the leaves had greyish tan patches on them, this means you had thrips, and will have them again unless you treat. D.D.T. has proved a perfect control for this pest.

DAHLIAS

Perhaps our most spectacular fall flower, the Dahlia should not be planted too early, as the flowers will not do well in warm weather. Do not, however, keep tubers later than June 1st, since by that time they usually start shriveling and may be injured if kept later. Dahlias need plenty of potash and phosphorus. If you apply the 25 to 30 lbs. of mixed fertilizers recommended for general use before planting, then additional feeding of potash and phosphorus will still be needed to produce firm tubers that will keep over winter, healthier plants and better bloom.

Leaf hoppers which carry disease and which also injure the plant by sucking juice from the leaves and stems are easily controlled by regular dusting or spraying with D.D.T. Mulching with straw, excelsior or some other airy, light material will help keep the soil moist and cool. Don't use leaves or grass clippings that mat down and pack—they hold in too much moisture.

FANCY LEAVED CALADIUMS

These spectacular foliage plants are particularly valuable because they do well in shade. Start them in a mixture of half sand and half leaf mould at a temperature of over 70°. When the roots are well-developed and the shoot is beginning to show, pot up in rich soil. Set out in the garden when weather is warm and settled. Ele-

phant ears can be planted directly in soil out of doors, but the weather must be warm and settled, otherwise they will rot.

TUBEROSE

This warm-weather bulb should be planted in rich soil, with 2" of soil over the tip after the weather is warm and settled. Do not try to save the bulbs: these must be grown by a specialist if they are to bloom well. Buy new bulbs each year.

CANNAS

While cannas will tolerate cold soil, they usually do not start growing until hot weather comes. Plant when the apple blossoms appear, in rich soil. If planted in round beds, you will need 37 plants for a 10 foot bed (18 plants on the outside, 12 in the second row, six for the third row and one in the center). A 7 foot bed will use 19 plants, with 12 plants on the outside row, six for the middle row and one plant in the center.

LILIES

Even the swamp lilies will not tolerate wet feet; all must have perfect drainage. Yet they like a moist, cool soil. This means that liberal quantities of old well-decayed compost is almost essential for lilies. They will not tolerate lime; your soil should have a pH of 6.5 or below if you want to grow good lilies.

The finest FLOWER SEEDS in the world

AGERATUM (a)—Culture I.

Blue Cap—New, dwarf, only 6" high. Deep blue. Pkt. 15c.

Blue Perfection—Deep amethyst-blue. Ht. 9".

Midget Blue—1940 All-America. Azure blue. Ht. 2-3". Pkt. 25c.

ALYSSUM (a)—Culture II; (hp) Culture VI.

Carpet of Snow (a)—White flowers, spreading plants, Ht. 3".

Lilac Queen (a)—Lavender-lilac flowers. Plant 6" high.

Violet Queen (a)—Deep violet, sweet scented. Pkt. 15c.

Saxatile Compactum (Gold Dust (hp))—Golden-yellow. Pkt. 15c.

ANCHUSA, Blue Bird (a)—Culture I. Sprays of Indigo-blue flowers; Plant 20-24" high.

ANTIRRHINUM (Snapdragon) (a)—Culture I.

Large Flowered, Half-Dwarf—Heavy spikes. Mixed colors. Pkt. 15c.

Tall Giant—Spikes 2 to 3 ft., upper part thickly studded with immense blooms. All colors. Pkt. 15c.

Super-Majestic, Rust-Resistant—Large, broad individual florets, 10 to 20 spikes in bloom at once. All colors. Pkt. 20c.

Tetra—New! Largest flowered of all Snaps. Many distinctly ruffled. Rust-resistant. Many colors. Pkt. 20c.

AQUILEGIA (Columbine), Mrs. Scott Elliott's Long-Spurred (hp) (s)—Culture VI. Extremely large flowers, wide range of pastel colors. Pkt. 25c.

ARABIS (Rock Cress) (hp)—Culture VI. Showy dwarf, spreading plants, Ht. 8-10". Cut flowers last long time. Pkt. 15c.

ARCTOTIS (Blue-eyed African Daisy), Grandis (a)—Culture I or II. Pure white blooms, bluish center, gold band. Pkt. 15c.

ARMERIA (Thrift) (hp) — Culture VI. Rock-garden plant, evergreen leaves; rose and white flowerheads. Pkt. 15c.

ASTER (a)—Culture I.

American Branching—3½ to 4-in. double blooms. All colors.

California Giant Improved—5-in. double flowers, with long curled petals, stems 1½ to 2 ft. Branching. Pkt. 15c.

Giant Crego, Wilt-Resistant—Flowers 4 to 5-in. double; petals curled and twisted. Long stems. Branching. Pkt. 15c.

Navy Blue, Giant Crego — All-America. Large 4-in. double flowers, deep purple blue. Extra early. Pkt. 15c.

El Monte—Largest of all asters. Deep crimson blooms with daintily interlaced plume-like petals. Quite early. Pkt. 20c.

Los Angeles—Super-giant flowers, pure shell pink; curling, interlaced petals, giving feathery effect. Pkt. 20c.

Pompon Asters—Small round pompons with short, broad outer petals; center petals quilled. Ht. 15". All colors. Pkt. 20c.

Queen of the Market, Wilt-Resistant — First to bloom. Round, double, 3-in. flowers; long stems. All colors. Pkt. 15c.

Sunshine—Huge flowers, single row of outer petals with contrasting yellow, quill-like center. All colors. Pkt. 20c.



ANTIRRHINUM
Snapdragon



ANCHUSA
Bluebird

KEY TO SYMBOLS

The symbols after the name of each flower give you the following information:

(a)—Annual

(hp)—Hardy Perennial

(b)—Biennial

(s)—Suited to semi-shade

Information on how to grow is indicated by the Culture Number. Refer to Page 33 for complete data.

The initials "A-A" indicate winners of the All-America Awards.

AUBRIETIA (False or Purple Rock-Cress) (hp)

(s) — Culture VI. Dwarf creeping plant; flowers form cataract of color. Silver green foliage. Pkt. 15c.

BABY BLUE EYES—See Nemophila.

BABY'S BREATH—See Gypsophila.

BACHELOR'S BUTTONS (Centaurea) (a) (s)

—Culture II or IV.

Blue Boy—Rich deep blue, fully double flowers. Pkt. 15c.

Jubilee Gem—All-America. Dwarf plants, completely covered with large, double, deep blue flowers. Pkt. 15c.

Pinkie—Double flowers, lovely deep pink. Pkt. 15c.

Red Boy—Bright vivid crimson, fully double. Pkt. 15c.

Snowman—Best white variety. Fully double. Pkt. 15c.

Mixed—Pkt. 15c.

BLANKET FLOWER—See Gaillardia.

BALLOON VINE (Love-in-a-Puff) (a) — Culture

III. Rapid growing vine. White 4 petaled flowers, succeeded by small balloon-like seed-pods.

BALSAM (Lady-Slipper) (a) (s) — Culture II.

Double, Camelia-like flowers; symmetrical bushy plants.

BELLIS PERENNIS—See Daisy, English.

BLUE LACE FLOWER—See Didiscus.

BRACHYCOME—See Daisy, Swan River.

BURNING BUSH—See Kochia.

BUTTERFLY-FLOWER—See Schizanthus.

CALENDULA (Pot Marigold) (a)—Culture II or IV.

Orange King—Glowing orange color. Outer petals slightly imbricated while centers are incurved. Ht. 18".

Orange Shaggy—All-America. Deep orange with lighter center. Long fringed overlapping petals, like a Chrysanthemum.

Sunshine—Buttercup yellow, large double flowers. Petals broad and drooping. Free from Calendula odor.

Mixed—

CALIFORNIA POPPY—See Eschscholtzia.

CALLIOPSIS (Tickseed) (a)—Culture II or IV.

Golden Crown—All-America. Rich yellow, maroon center.

Dwarf Varieties, Mixed Colors—Many prettily marked.

Tall Mixed—

CAMPANULA (Canterbury Bells) (b) — Culture VII.

Single, Mixed Colors—Pyramidal plants, 2 to 3 ft. tall covered with large bell-like blooms.

Double, Mixed Colors—Double blooms in white and shades of blue and rose, that completely cover plant.

CANDYTUFT (Iberis) (a) (s)—Culture III.

White Hyacinth—Plants much branched, each branch a massive thick hyacinth-like spike of pure white. Ht. 1 ft.

Umbellata, Mixed Colors—Umbrella-shaped flower heads on dwarf bushy plants. Very showy. Ht. 1 ft.

CARDINAL CLIMBER (a) — Culture II. Attractive, rapid growing vine, with fern-like lacinated foliage, covered with cardinal-red flowers all summer. Pkt. 15c.

CARNATION, Chabaud's Giant (a) — Culture I or VIII. Double, extra large, clove-scented flowers. Pkt. 15c.

All Flower Seeds 10¢ PER PACKET
except where otherwise noted

HOW? WHEN? WHERE? WHY?

Gardening . . . the answer to a fundamental need

Too Much Work?

To those who have never known the pleasures of gardening and growing flowers, this glorious activity may seem like hard work. Yet those who predicted that people were lazy and would quit growing plants as soon as the wartime food emergency was over have been amazed at the enthusiasm with which millions of Americans have kept right on growing things. That, of course, didn't surprise those who have always gardened because they know that no other single occupation of man gives as much pleasure to so many people. Folks keep on gardening simply because it's fun.

Or perhaps "fun" is too small a word to use in describing the satisfaction that comes from gardening. Maybe the better way to describe that satisfaction is to tell about the father who said, not so long ago, "Regardless of what the food situation may be, you can be sure I'll keep on gardening. It's the only recreation I've found that the whole family can enjoy together. We have two boys and two girls who never could agree on a common family activity. Now all of us work together in the garden and enjoy it. I'm certain that gardening has brought us closer together as a family."

Yet while gardening is an activity in which the entire family can take part, it is just as much one which needs no company to enjoy.

There is no need to find a course or playing field, or to travel miles to engage in gardening. And millions of Americans find that they don't need a long uninterrupted week end to do a good job of growing things: they manage to fit in their gardening between other tasks and pleasures.

A Fundamental Need

Perhaps the downright satisfaction and pleasure we get out of gardening is evidence that we all need some contact with the soil: that such a contact satisfies some fundamental want in man.

At the same time, there is no reason why we should work any harder than is necessary. Gardening can be hard, or it can be easy. Here is a trick that will help lighten the work for you:

Mulching vs. Cultivation

Sometimes half-truths are as good as whole ones. The furor created by the book, "Ploughman's Folly," which advocated a trash mulch at the surface made sense as far as the mulch was concerned. By plowing or digging in the conventional way and then mulching, the home gardener can take advantage of good soil preparation, plus the

very real saving in labor that comes from using a mulch.

With the right mulch, there is no need to weed, no need to stir the soil, and once that mulch is applied, the need for watering (at least in normal seasons) is all but over. This should save hours of valuable time.

How to Mulch

A mulch is merely a covering of some material which won't support weed growth, and which is porous enough to trap air. This porous quality is important because it keeps down the loss of moisture from the soil and also keeps the heat of the sun from penetrating deeply and hurting root growth.

A perfect mulch is well-rotted, old manure. Never use fresh manure for a mulch because it will ferment and rot, and some of the gases released in this process can damage plants. But when well-rotted, manure not only keeps down weeds and saves moisture, but can be worked into the soil after the growing season is over.

If grass clippings are allowed to lie on the lawn for a day or two to cure, they can be applied in thin layers, and gradually built up to form a thick mulch. If not dried, they may ferment and cause trouble.

Peat moss, if moist when applied, and if kept moistened, makes a perfect mulch. But since it may suck water away from the plants unless already moist, it must never be applied bone dry, nor should it be allowed to dry out. It is clean, weed-free and a good insulator.

Buckwheat hulls, rice hulls, ground corn cobs and clean straw are other materials that are satisfactory.

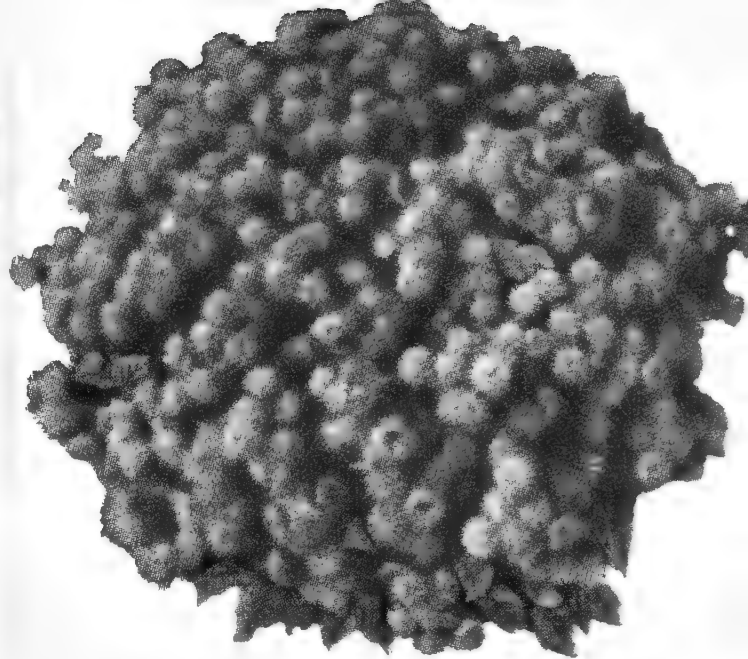
When to Mulch

Most gardeners wait too long to mulch. The soil should be moist, but not wringing wet. If spring rains have made the ground soggy, wait until you can cultivate without packing, and then apply. If the ground is dry, soak the soil thoroughly before mulching.

Mulching and Watering

Always keep in mind that a mulch does not add any water to the soil, nor does it prevent the loss of water through the leaves of the plant. If rains heavy enough to penetrate the mulch do not fall, then you will have to water. This can be done by removing the nozzle from the hose and allowing it to flow out on top of the mulch. If the mulch is thick enough, there should be no washing of the soil.

Clean straw used as a mulch under tomatoes will keep the fruit clean, and in addition will save the labor of staking.



AGERATUM,
Midget Blue



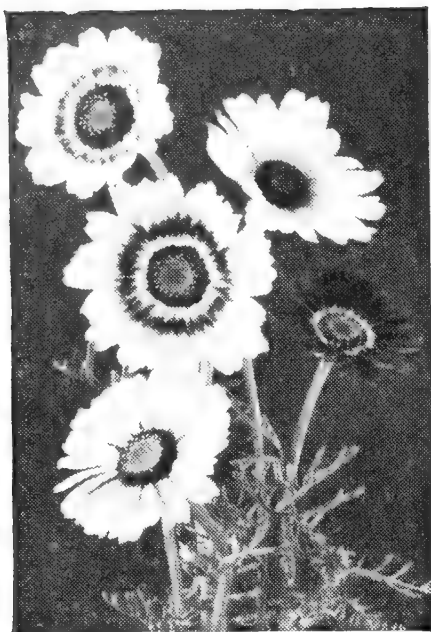
ESCHSCHOLTZIA,
California Poppy



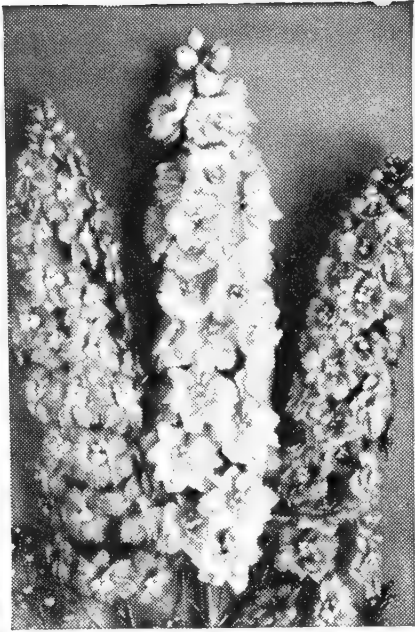
COSMOS,
Radiance



IPOMEA,
Heavenly Blue



CHRYSANTHEMUM
Painted Daisy



DELPHINIUM
Pacific Giant

CASTOR BEAN (Ricinus) (a) — Culture III or VII. Giant, strong growing plant, with ornamental foliage. These plants drive away moles from garden.

CELOSIA (Cockscomb) (a)—Culture I or III.

Shades of Red—Crested flowerheads. Very showy.

Feathered, All Colors—Brilliant silky plumed.

CENTAUREA—See Bachelor's Buttons.

CHRYSANTHEMUM, Single (Painted Daisy), Mixed (a)—Culture II or IV. Well-branched plants, with 3" flowers, all with dark eye, surrounded by narrow yellow ring, then slightly wider crimson ring, followed by dominant color.

CLARKIA (a) (s)—Culture IV. Great spikes of double and semi-double flowers set along stem; dainty colors.

CLEOME (Spider Plant), Pink Queen (a) (s)—Culture II or IV. All-America. Huge heads of true pink; turn white before falling. Airy foliage, branched plants. Pkt. 15c.

COCKSCOMB—See Celosia.

COBAEA SCANDENS (Cathedral Bells or Cup-and-Saucer Vine) (a)—Culture II. Rapid growing vine, bell-shaped green flowers which change to rosy purple.

COLUMBINE—See Aquilegia.

CORAL BELLS—See Heuchera.

COREOPSIS, Double Sunburst (hp) (s)—Culture VI. Double flowers, 1½ to 2-in. across. Keep a long time.

CORN FLOWER—See Bachelor's Buttons.

COSMOS (a)—Culture II or IV.

Dazzler—All-America. Deep crimson maroon flowers, 4 to 5-in. across, with broad, fluted petals. Pkt. 25c.

Orange Flare—Single golden orange flowers.

Orange Ruffles—Same color as Orange Flare, but with extra row of petals. Early flowering. Pkt. 25c.

Radiance—NEW! Winner of highest award in 1948 All-America trials. The first bi-color Cosmos ever to be developed. Striking deep rose petals overlaid with large well-defined zone of rich crimson. Pkt. 50c.

Sensation, Mixed—Very large single flowers, up to 5 in. across. All-America. Earliest blooming. Pkt. 15c.

Yellow Glare—All-America. Single, 2 to 2½-in. flowers in great masses. Slightly later than Orange Flare. Pkt. 15c.

CYNOGLOSSUM (Chinese Forget-Me-Not), Firmament (a)—Culture II. Dwarf bushy plants, bright blue flower. All-America Winner. Easy to grow. Pkt. 15c.

CYPRESS VINE (Star Glory) (a) — Culture II. Graceful twining vine with fernlike foliage and star shaped blossoms. Soak seeds in warm water before sowing.

DAHLIA, Unwin's Ideal Bedding (a)—Culture I or II. Miniature double and semi-double flowers, nearly all twisted. Many colors. Dwarf bushy plants. Pkt. 20c.

DAISY, AFRICAN—See Arctotis.

DAISY, ENGLISH (Bellis Perennis) (hp)—Culture VI. Huge double flowers, the "daisy" of literature. Pkt. 15c.

DAISY, SWAN RIVER (Brachycome) (a) — Culture II. Dwarf plants, covered with dainty flowers, like small Cineraria. Many colors.

All Flower Seeds 10¢ PER PACKET
except where otherwise noted

DELPHINIUM (Perennial Larkspur) (hp)—Culture VI.

Belladonna—Large single flowers, lovely turquoise-blue, loosely arranged on tall slender spikes. Pkt. 20c.

Bellamosum—Single flowers, deep gentian blue, loosely placed on graceful, strong spikes. 3 to 4 ft. tall. Pkt. 20c.

Giant Pacific Hybrids—Extremely large flowers, symmetrically spaced on thin woody stems, almost 100% double. Comparatively mildew resistant. Mixed colors, or Shades of Blue, Pkt. 35c.

DIANTHUS PLUMARIUS (Pinks), Double and Single Mixed (a)—Culture I or VIII. Brilliantly colored, sweet-scented flowers for beds, borders, rock gardens.

DIANTHUS BARBATUS—See Sweet William.

DIDISCUS (Blue Lace Flower) (a) —Culture I or II. Clusters of lavender-blue flowers, like tiny parasols.

DIGITALIS—See Foxglove.

ESCHSCHOLTZIA (California Poppy) (a) (s)—Culture III. Large silky single flowers; many colors.

EUPHORBIA—See Snow-on-the-Mountain.

EVERLASTING FLOWERS (a)—Culture II. A special mixture of flowers that can be dried for winter bouquets—Globe Amaranth, Gomphrena Everlasting, Helichrysum, Clover Strawflower.

FLOWERING FLAX—See Linum.

FOUR O'CLOCK (Mirabilis) (a)—Culture III. Popular old-fashioned plants, with blossoms that open in mid-afternoon. Red, rose, yellow, white, lilac.

FOXGLOVE (Digitalis) (b) (s)—Culture VIII. Long spikes with large thimble-like flowers all drooping toward one side; beautifully spotted. All colors.

GAILLARDIA (Blanket Flower) (a)—Culture II; (hp) Culture VI.

Single, Mixed (a)—Gorgeously colors, daisy-like flowers.

Double, Mixed (a)—Fine annual for cut flowers.

Perennial Monarch Mixed (hp)—Giant flowers, varied colors.

GILLIFLOWER—See Stocks.

GLOBE AMARANTH—See Everlasting Flowers.

GOMPHRENA EVERLASTING—See Everlasting Flowers.

GODETIA (Satin Flower), Double, Mixed (a) (s)—Culture I or II. Bushy plants with masses of double Azalea-like flowers. Many shades of rose, pink, white, blue.

GOURDS, ORNAMENTAL (a) — Culture III. Large foliaged vine. Ripened fruits are singularly shaped, many colored. When dried last for years.

GEUM, Mrs. Bradshaw (hp) — Culture VI. Large, double, fiery scarlet flowers on long stems. Pkt. 20c.



GYPSOPHILIA
Baby's Breath



COREOPSIS
Double Sunburst



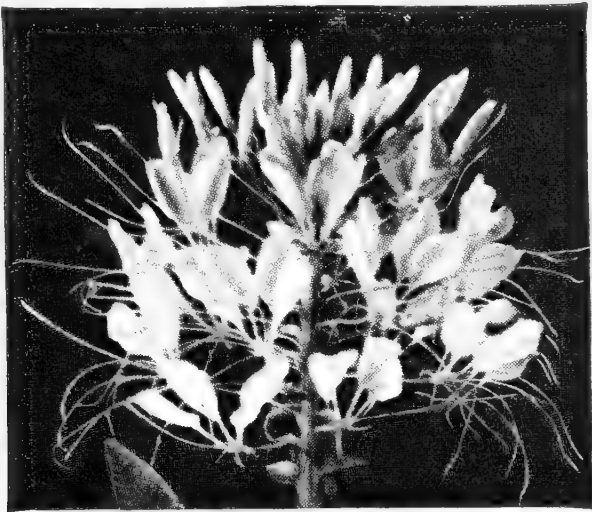
ZINNIA, Black Ruby



MARIGOLD, Naughty Marietta



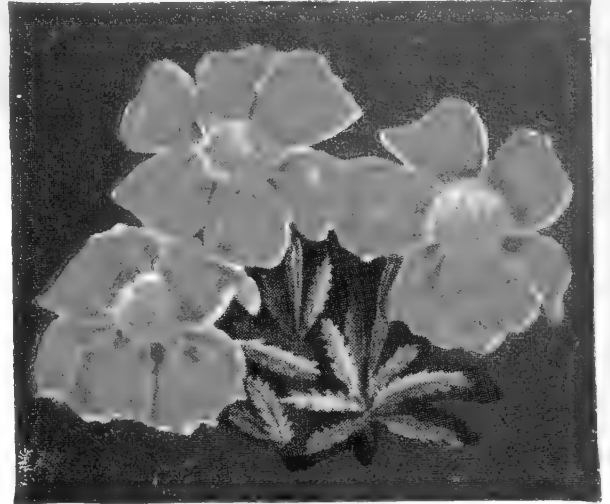
PETUNIA, Rose Marie



CLEOME, Pink Queen



PETUNIA, Cheerful



MARIGOLD, Flash

HOW? WHEN? WHERE? WHY?

Practical answers to every-day questions about home gardening

Pinching Back Flower Plants

If sturdy, stocky plants are wanted, they will need "pinching back." When five or six pairs of leaves have formed, pinch out the top, leaving two or three pairs of leaves on the stem. New shoots will come where the leaves join the stem. Sometimes a second pinch can be made, when these new shoots in turn have formed four or five pairs of leaves, leaving two pairs on each. Pinching increases the number of flowers, though sometimes it decreases their size. Petunias particularly need pinching back if they are to remain short. Towards the end of the flowering season, after Petunias have grown long and lanky, they can be cut back to within an inch or two of the ground and they will throw out new growth. If given a light feeding of mixed fertilizer, these rejuvenated plants will often bloom as well as younger plants early in the season.

Removing Flowers

The gardener can lengthen the blooming season of all annuals and some perennials by removing old flowers as soon as they fade, and preventing the plant from going to seed. Delphiniums and Canterbury Bells will usually respond to this treatment by producing a second crop of flowers in fall.

Flowers in the Vegetable Garden

To have plenty of cut flowers without

disturbing your flower borders, *plant a few rows of flowers along the edge of your vegetable garden.* Or set them out between rows of early lettuce or radishes, where they can bloom after the vegetables have been used.

Large Flowered and Double Petunias

These should never be direct seeded outdoors, but must be started indoors. Use a flat filled with seed-starting mixture. Press soil with a brick or flat piece of wood to firm it. Wet thoroughly. Then broadcast the seed on the surface of the soil. Cover entire flat with a pane of glass and then with a sheet of newspaper. Set in a warm, dark place at 75° to 85° until seed germinates. Then move to a sunny window. If flat dries out slightly before seed sprouts, water carefully with an atomizer. Transplant seedlings when second pair of leaves forms. Move into the garden after danger from frost is past.

D. D. T. and Aster Yellows

Though wilt resistant asters solved the wilt problem, Aster Yellows are still a menace. Now, with D.D.T., we can keep off the leaf hopper, the insect that carries the virus of Yellows to the Aster plant. Regular spraying or dusting with D.D.T. will leave a residue which will kill the leaf hopper when it lights on the plant and before it can stab the leaves and pass on the

virus. So if your Asters have been disappointing lately, try again, using D.D.T.

Formula for Pansy Growing

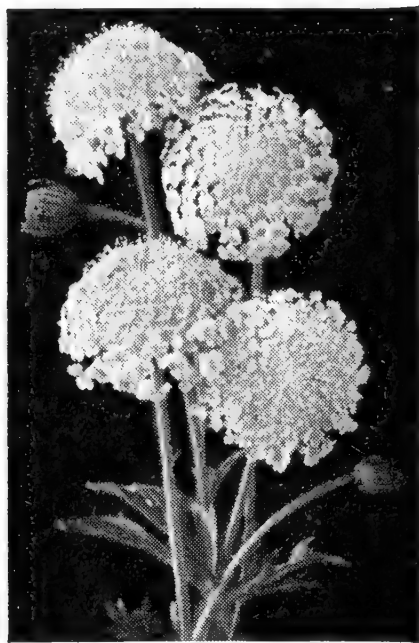
Pansies are not annuals but near-hardy perennials that need special culture. Cold frames, with glass sash and mats for winter protection are essential. Soil should be rich: up to one-third of soil can be well-rotted manure or sifted compost. Sow seed in August. Protect frame with shades made by tacking muslin or cheese cloth over window screens. Thin plants to stand 4" x 4". After first frosts, cover with glass and mats, and allow to freeze slowly. Remove mats in early spring and allow sun to warm frame. Move plants into permanent position when in full bloom. Keep faded flowers picked: they will stop blooming if any seeds are allowed to form. Growing good Pansies from seed is the test of a real gardener.

Two Interesting House Plants

The Heavenly Blue Morning Glory makes an excellent house plant for winter flowering if grown in a sunny window. Start new plants in late August, using 6" pots (they make heavy root growth). They can be trained up strings on either side of the window. Lobelia plants can be lifted just before frost, cut back, potted and will flower indoors in late winter.



GODETIA



DIDISCUS

GYPHOPHILA (Baby's Breath) (a)—Culture I; (hp) Culture VI.

Annual Gypsophila (a)—Open, bell-shaped blooms used so much for mixing with other flowers. White or Pink.

Perennial White (hp)—Tiny flowers on slender stems, producing a mist-like effect. Thrive in any soil.

HELIANTHUS, Sungold (Sunflower) (a) — Culture II. Large brilliant golden yellow double flowers. Pkt. 15c.

HELIOTROPE, Mammoth Mixed (a)—Culture I or V. Everyone loves the fragrance of Heliotrope. Pkt. 15c.

HEUCHERA (Coral Bells) (hp)—Culture VI. Bright coral flowers on wiry stems. Charming for rock garden. Pkt. 25c.

HIBISCUS (Giant Mixed) (hp)—Culture VI. Showy shrub-like plants; enormous white, pink and red flowers. Pkt. 15c.

HELICHRYSUM—See Everlasting Flowers.

HUNNEMANNIA (Bush Eschscholtzia, Mexican Tulip Poppy or Santa Barbara Poppy) (a)—Culture III. Shrubby bushes with large cup-shaped flowers on stems 1 ft. long. Petals are broad and crinkled.

HOLLYHOCK, Double Mixed (hp) — Culture VI or VIII. Great spikes of double blooms. Long blooming season if faded flowers are picked. Hollyhock rust can be overcome by treating as a biennial. Pkt. 15c.

IBERIS—See Candytuft.

IPOMEA—See Morning Glory.

KOCHIA (Burning Bush or Fire Bush) (a)—Culture III. Close, compact bright green pyramidal bush, moss-like foliage turns brilliant red in fall. Fine hedge plant.

LADY SLIPPER—See Balsam.

LATHYRUS LATIFOLIUS—See Perennial Sweet Pea.

LARKSPUR (Annual Delphinium) (a) (s) — Culture IV or II.

Blue Spire, Giant Imperial—Deep Oxford blue, dbl. Pkt. 15c.

White King, Giant Imperial—Large dbl., pure white. Pkt. 15c.

Pink Perfection—Lively light pink, large dbl. florets. Pkt. 15c.

Ruby—Glorious red double florets. Pkt. 15c.

LINUM (Flowering Flax) (a)—Culture III; (hp) Culture VI.

Scarlet Flax (a)—Glossy-red flowers, 1-in. or more across. While they last only one day, new blooms appear each morning.

Perenne Blue (hp)—Many light blue flowers all summer.

LOVE-IN-A-PUFF—See Balloon Vine.

LOBELIA, Crystal Palace (a) (s)—Culture I or V. Small, round, compact plants covered with deep blue flowers.

LUPINS, Russell's Choice Mixed (hp) (s)—Culture III or VII. All-America. Well-rounded thickly set spikes of extraordinary colors. Wonderful border flower. Pkt. 25c.

MARIGOLDS (a)—Culture I or II.

Burpee's Gold—Huge double flowers, sweet-scented. Pkt. 15c.

Crown of Gold, Odorless—All-America. Short, quilled center petals, flat, deep orange guard petals. Pkt. 15c.

Dwarf Royal Scot—All America. Double, small mahogany blooms with gold stripe. Dwarf compact plants. Pkt. 15c.

Flash—Dwarf French. Single 1 3/4-in. flowers; varying yellow to red. All-America. Pkt. 25c.

Guinea Gold—Carnation flowered. Orange, flushed with gold.

Harmony Type, French Dwarf Dbl. Hybrids — All-double 1 3/4-in. flowers. Combinations of yellow, orange, maroon. Pkt. 15c.

Melody—French Dwarf Harmony. All-America. Golden-orange 1 1/4-in. flowers. Plants 12-15" tall. Early. Pkt. 15c.

Naughty Marietta—New dwarf French single. Rich golden yellow, blotched maroon at base of petals. Pkt. 25c.

Spry—Extra dwarf dbl. French type; 2 1/2-in. flowers with clear yellow center, mahogany-red guard petals. Pkt. 15c.

Sunkist—Dwarf dbl. French. All-America. Mound-shaped 6 to 8-in. plants covered with deep orange flowers. Pkt. 15c.

Sunset Giants—Largest of the Marigolds, blooms 5-in. and over. Quilled and incurved petals. Pkt. 15c.

Scarlet Glow—French Dwarf Double. Open deep scarlet and turn rich tangerine. Bushy plants, bloom in 10 wks. Pkt. 15c.

Yellow Pygmy—French Dwarf Double. Tiny 6" plants, above which are double, 1 1/4-in. lemon-yellow flowers. Pkt. 15c.

Yellow Supreme—Carnation flowered. All-America. Creamy lemon yellow 3-in. blossoms. Sweet-scented.

Yellowstone, Mission Giant—All-America. Bright yellow 2 1/2-in. flowers, Chrysanthemum-like form. Late. Pkt. 20c

MIGNONETTE (Reseda) (a) — Culture III. Quaint, old-fashioned blooms, highly prized for fragrance.

MIRABILIS—See Four O'Clocks.

MOON FLOWER (a)—Culture VII. Quick-growing vine, white 5-in. flowers that open in evening. Very fragrant.

MORNING GLORY (Ipomea) (a)—Culture III, V or VII.

Heavenly Blue—Extremely large blue flowers.

Pearly Gates—All-America. Unusually large white flowers, luxuriant foliage. Pkt. 25c.

Scarlet O'Hara—All-America. Rich wine-red or deep crimson blossoms about 4-inches across. Pkt. 20c.

Tall Mixed—

MOSS ROSE—See Portulaca.

MOURNING BRIDE—See Scabiosa.

NASTURTIUM (a)—Culture III or V.

Dbl. Glorious Gleam Hybrids — Dwarf compact plants. Large double flowers on long stems. Many colors.

Golden Gleam—Semi-tall plants. Double and semi-double, fragrant gold blossoms.

Golden Globe—Giant double and semi-double, pure golden yellow blooms; dwarf plants. Pkt. 15c.

Mahogany Gem—Rich mahogany, the darkest Nasturtium. Dwarf.

Salmon Gleam—Tall double. Rich salmon.

Scarlet Gleam—Tall double. Fiery orange-scarlet.

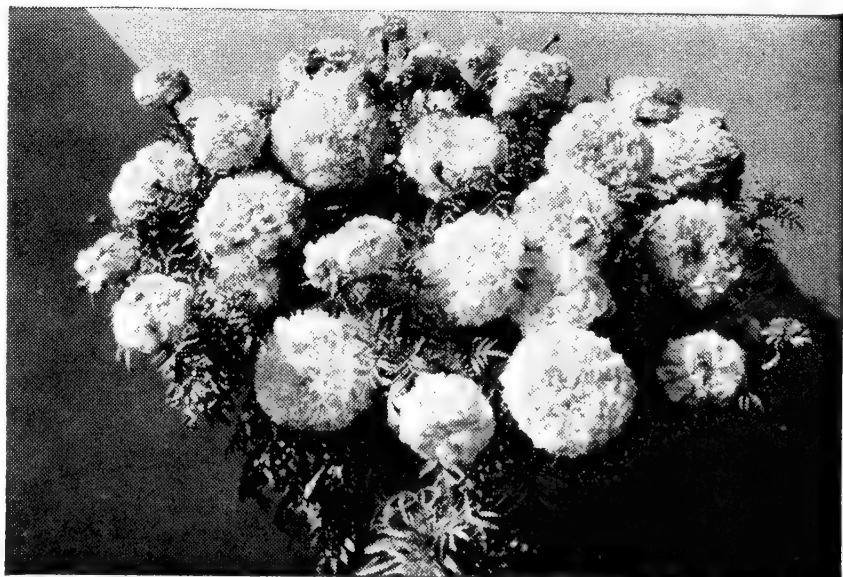
Scarlet Globe—Dwarf. Double and semi-double. Pkt. 15c.

NEMOPHILA (Baby Blue Eyes) (a) — Culture II. Spreading plant. 6" tall; many cup-shaped, sky blue flowers.

NICOTIANA (Flowering Tobacco) (a) (s)—Culture I or II. Long tubed, petunia-like blooms with rich, spicy fragrance. Bushy plants, 30-36" tall.

PAINTED TONGUE—See Salpiglossis.

MARIGOLD GIGANTEA



All Flower Seeds 10¢ PER PACKET
except where otherwise noted

HOW TO GROW all flowers listed in this catalog

Behind the listing of every flower, you will find a number from I to VIII. These numbers refer to one of the following cultures, which give directions for growing every flower we list.

While growing flowers from seed is sometimes more difficult than vegetables, largely because we have so many different flowers, each with its special needs, the following eight different methods should cover the individual needs of any flower listed. In general, the same fundamentals apply as in growing vegetables: loose, well-drained soil to which has been added plenty of organic matter, fed by applying from 2½ to 3 lbs. of a good mixed fertilizer to every 100 square feet. However, when starting seedlings in flats or pots indoors, do not add fertilizer to the starting soil, since the seed contains all the food the young plant will require until it begins to form true leaves. Do add fertilizer to the soil in which plants are to flower.

One of the important problems in the home garden is to keep up a continued show of bloom. This calls for using several different types of annuals, such as those which must be planted very early (see Culture IV) and those which bloom later (Cultures I and II). If some of the cool-weather annuals in group IV are seeded in midsummer and kept well watered, they will grow slowly until the cooler days of fall start them into more active growth. These will produce late flowers. Also, quick-growing annuals from Culture II can be seeded at intervals for succession bloom during the summer.

One important factor in lengthening the flowering season of all annuals is to cut off all flowers as soon as they fade. Annuals complete their life cycle when seed is formed, and usually stop flowering as soon as this happens. By preventing seeding through the removal of faded flowers, the plant is kept growing and blooming.

Culture I

These flowers need a long season and so must be started indoors if a full blooming period is to be had. If early bloom is not important, they will bloom later in the summer when sown directly in the open garden. Some gardeners sow both ways so as to be sure to have continuous bloom.

For directions on starting seedlings in flats, see page 14 in vegetable section. Remember that flower seedlings are frequently more delicate than those of vegetables, so extra care in watering should be used. Never let the flats dry out. Shading the soil with a pane of glass covered with newspaper is important in the case of fine seed such as petunia, since these are easily injured by hot sunshine.

When seedlings show their second pair of true leaves, transplant 2½" x 2½" to give the individual plants a chance to develop. Expose gradually to outdoor conditions and plant outside when danger from frost is past. When sown outdoors without transplanting, follow instructions under Culture II.

Culture II

These are the quicker growing annuals, which can be sown directly in the garden and will bloom in time to make a good display for most of the summer. If they come up too thickly, the extra plants can be transplanted to another

location. If particularly early flowers of these are wanted, they can be started as directed under I.

Because flower seedlings are rather delicate, extra care in preparing the seed bed will pay dividends in better plants. Spread about 2½ lbs. of good general mixed fertilizer over every 100 sq. ft. Next, apply all the organic matter such as peat or compost that you can spare, and dig in the fertilizer and organic matter. Rake surface to a fairly smooth seed bed and sow seeds at depths recommended in catalog listings. Water thoroughly with a fine spray and keep moist until seedlings form their first true leaves. When second true leaves have formed, any plants not needed in that particular location can be transplanted elsewhere.

Culture III

These flowers do not transplant well, and should be planted out-of-doors where they are to bloom. Seed as soon as danger from heavy frosts is over. Otherwise, culture is same as II. When seedlings are large enough to select the best ones, thin out. All of these can be handled as pot-grown seedlings as described under VII if early bloom is wanted. Do not try to handle as seedling transplants. When setting out from pots, disturb roots as little as possible.

Culture IV

These flowers are all unusually hardy annuals that can withstand heavy frosts. In fact, they are often sown in fall, just before the soil freezes for the winter, in which case they won't germinate until spring. Fall sowing gets the seeding job out of the way in spring when time is precious.

If not fall-sown, they should be seeded as early in spring as the soil can be worked. Most of them make their growth early and do very little during the heat of summer. Often, by cutting off the faded flowers and feeding the plants lightly, they can be revived so as to bloom in fall.

Culture V

These flowers, while garden subjects, are also useful as winter flowering house plants. For garden use, handle according to II. For winter flowering inside, plant fairly late in the season, as old plants will not bloom well. As soon as seedlings have made their second pair of leaves, plant in 2½" pots (no larger) and keep shifting to larger pots, never more than two sizes larger with each shift, until they are in 6" pots. Annuals in pots should have five to six hours of direct sunshine if they are to flower indoors.

Culture VI

Perennials can be seeded at almost any time during the year except for a short season in fall, when the young seedlings would not be mature enough when frost comes to survive. They can be seeded in cold frames before the ground thaws in spring and will grow when warmer weather comes. Most experienced gardeners, however, prefer to sow them in late spring after the heavy rush of work is over. A cold

frame or sheltered bed which can be shaded from the direct sun is best. Prepare soil thoroughly with plenty of organic matter, peat or vermiculite. A loose, friable soil will produce a thick mat of roots so that the seedlings will transplant easier. Perennial seedlings are particularly weak growers and so need extra care. In covering the drills in which the seeds are sown, use either pure clean sand or a mixture of half sand and half peat, to prevent packing of the soil over the seeds. Always water with a fine spray.

As soon as the second leaves form, seedlings can be transplanted into their permanent position. Or if more convenient, they can be left in the seedbed until the following spring. Under this culture, only a few species will bloom the first year, and even those that do bloom will not throw typical flowers until the second year. Planting earlier does not increase the chances for first-year blooms, but if for any reason it is more convenient to start perennials earlier in the season, Culture I may be used. Delphinium seed is often started in late August to take advantage of cooler night temperatures, as this seed will not germinate when soil readings go above 77 degrees.

Culture VII

These annuals need a longer growing season than can be given them out-doors, but because they do not transplant readily, they must be started in pots and set out into permanent position without disturbing the roots. Otherwise culture is the same as I. The use of plant bands (boxes made of veneer or waterproof paper) which are filled with soil in which seeds are planted in the same way as in pots, allows you to set out these delicate seedlings without disturbing the roots. The band will soon rot and the seedlings will grow as though started in the garden without transplanting.

One difficulty experienced by the home gardener without a greenhouse is that clay pots dry out too rapidly. This can be overcome by filling an ordinary seed flat with moist peat moss or vermiculite and plunging the pots into this. Be sure to keep the peat moist, since it will rob the soil in the pots of moisture if not enough water is applied.

Culture VIII

These flowers are biennials: that is, they make leafy growth the first year, but don't flower. The leafy growth of the first year stores food for blooming the following year. The flower spike or stem appears the second year, after which the plant dies.

This means that if a continuous show of bloom is wanted from biennials, a new planting must be made each year to replace those that bloom that year. Biennials are handled in the same way as perennials, except that to allow the plant to store enough food for the next year's bloom, the seed should be sown as early in spring as the soil can be worked. See page 31 for special instructions for handling Pansies, biennials that are handled in a special way.

SPECIAL NOTES ON FLOWER CULTURE

For simple cultural data on each of the flowers listed here, refer to the notes indicated by the letter after each.

Ageratum.....A	Carnation.....C
Alyssum (a)....A	Castor Bean....B
Alyssum (h.p.) D	Celosia.....A
Anchusa.....B	Chrysant'mum A
Antirrhinum...C	Clarkia.....B
Aquilegia.....D	Cleome.....B
Arctotis.....A	Coreopsis.....D
Aster.....A	Cosmos.....C
Bachelor's	Cynoglossum...B
Button.....C	Dahlia.....A
Ballon Vine...C	Delphinium...D
Balsam.....B	Dianthus.....C
Blue Lc. Flower B	Eschscholtzia..C
Calendula.....C	Everlas'g Flwr..A
Calliopsis.....A	Four O'Clock...B
Candytuft.....C	Gaillardia.....A

Gaillardia.....D	Nemophila.....A
Geum.....D	Nicotiana.....A
Godetia.....A	Pansy.....D
Gourds, Ornmtl. B	Petunia.....C
Gypsophila.....D	Phlox.....C
Helianthus.....D	Poppy, Ic. Mxd. A
Hollyhock.....D	Portulaca.....C
Kochia.....B	Salpiglossis...A
Larkspur.....C	Scabiosa.....A
Linum (a).....A	Schizanthus...A
Linum (w.p.)...D	Shasta Daisy...D
Lobelia.....A	Snow-on-the-
Lupines.....C	Mountain....B
Lupins.....D	Statice.....A
Marigold.....A	Stocks.....A
Mignonette...C	Tithonia.....B
Moon Flower...B	Verbena.....A
Morning Glory..B	Zinnia.....A
Nasturtium...B	

A—These Do Well When Sown Where They Are to Bloom

These annuals can be started outdoors directly for blooming where sown, or can be transplanted if they come up too close together. A special outdoor seed bed can be used to start enough plants to fill an entire garden. Because of the small area that will be needed, a special soil, made up as recommended under "Transplanting," can be used in this bed. This method is convenient when tulips and other bulbs occupy the beds in early spring.

B—Do Not Transplant These

These annuals do not tolerate transplanting, and should be sown thinly where they are to bloom. Mixing seed with sand before sowing will help distribute them evenly and thinly. Thin to proper spacing if they come up too thickly.

C—Seed These Early—Or in Late Fall

The hardy annuals in this group can be sown outdoors as soon as the soil can be worked in spring. Or they can be seeded in fall, just before the soil freezes for the winter and will sprout long before the soil can be worked in spring. Because these early seedlings are usually through blooming by midsummer, be ready to replant the bed with other annuals for late bloom.

D—Seed Almost Any Time (But Shade the Seedlings)

Perennials (plants that live over from year to year) can be seeded at any time after the danger from frost is over up to early summer. They are best started in a cold frame with some provision for shading the bed. If no cold frame is available, grow them in flats placed under the shade of trees or shrubs, but light sunshine should filter through to them: perennial seedlings won't grow in full shade.

To shade cold frames from full sunlight, cover ordinary window screens with cheesecloth or muslin. After sowing, keep watering with a fine spray (they may need watering twice a day in midsummer heat) until seedlings are ready to transplant. If three pairs of leaves have formed at least a month before killing frost is expected, they can be moved into permanent position the same fall: otherwise carry over in the cold frame until spring. Many perennial seeds sprout slowly: if you have followed directions don't worry if they don't show up within a week or two.

E—Start These Indoors For Early Bloom

These will do well when sown directly in the garden and where late bloom is wanted, some of the packet should be planted in this way. For outdoor culture, see "A." However, for early bloom, some of the seed should be started indoors.

F—These Vines Need Special Treatment

This is for vines that don't transplant well, but need a long season to flower. All need rather high heat, so a warm spot (temperature between 75° to 85°) is necessary. However, watch out that high heat does not dry out seedlings.

Fill 3" pot with seed-starting mixture of soil. Press two seeds into each pot and water well, place in heat until seeds sprout. May be grown in a sunny window, even if cooler, once seedlings are up. As soon as vines begin to twine, provide a stake for support. When danger from late frost is over, knock plants out of pots, disturbing roots as little as possible and set where they are to grow.

If early bloom is not wanted, direct seed outdoors, but ground *must* be warm (wait until after late irises and lilacs have faded). Do *not* grow in rich soil as this promotes leafy growth at expense of flowers. If soil is rich, add gravel or old weathered coal ashes.

HOLLYHOCK, Double

ANTIRRHINUM,
Tetra-Snapdragon

SCABIOSA,
Blue Moon

ZINNIA,
Will Rogers

HOW? WHEN? WHERE? WHY?

Easiest Annuals to Grow

We are often asked to recommend annuals for growing without much care, particularly around summer cottages used only on week ends, or where the soil is poor. We suggest *Calliopsis*, *Gaillardia*, *Marigold*, *Petunia*, annual *Phlox*, *Scabiosa*, *Verbena* and *Zinnia*. These usually bloom profusely without care or extra watering, though some water applied when seed is sown will often insure germination.

Annuals for Fall Bloom

By midsummer, many spring-sown annuals have seen their best days. While *Petunias* can be cut back to force new bloom, others can be replaced by sowing new seed late in June among the old plants. Try *Calendula*, *Candytuft*, *Celosia*, *Eschscholtzia*, annual *Phlox*, *Sweet Alyssum*, and small flowered *Zinnias* for this purpose. These late-sown annuals will need extra watering to germinate and grow. The *Alyssum* and *Candytuft* often survive early frost and keep flowering along with the hardy Mums.

Annuals for Edging

Low growing annuals planted at the edge of a garden make it look neat and finished. The best plants for this purpose are *Sweet Alyssum*, *Ageratum*, dwarf *Marigold*, dwarf *Petunias*, and *Zinnia linearis* or *mexicana*. Edging annuals should be pinched back once to keep them especially low.

Annuals for Fragrance

We are often asked, "What annuals are really fragrant?" We recommend *Alyssum*, *Candytuft*, *Carnation*, *Mignonette*, *Gleam Nasturtiums*, *Nicotiana*, *Petunia*, *Scabiosa*, *Stocks*, *Sweet Peas* and *Wallflower*.

Flowers for Shady Locations

Most annuals need plenty of sunlight, but there are a few which do fairly well in the shade, or with partial sun. The following are worth a trial in shady spots:

<i>Cornflower</i>	<i>Candytuft</i>
<i>Nasturtium</i>	<i>Larkspur</i>
<i>Pansy</i>	<i>Lupine</i>
<i>Nicotiana</i>	<i>Godetia</i>
<i>Vinca</i>	<i>Lobelia</i>
<i>Coreopsis</i>	<i>Bleeding Heart</i>
<i>Cleome</i>	

In the *vine* group, those which often prosper in fairly shady places are *Cardinal Climber*, *Cup-and-Saucer Vine*, and *Morning Glory*.

Flowers for Poor Soil

Of course, the right answer to poor soil conditions is "Improve the soil!" But if you can't or don't want to do this, you can usually get fairly good results in poor soil with these:

<i>Amaranthus</i>	<i>Marigold</i>
<i>Balsam</i>	<i>Nasturtium</i>
<i>California Poppy</i>	<i>Petunia</i>
<i>Calliopsis</i>	<i>Portulaca</i>
<i>Gaillardia</i>	<i>Sweet Susan</i>

Flowers for Hot, Dry Locations

In spots where the sun beats down mercilessly all day long, many flowers can not prosper. But some of the annuals can do well, even in these difficult locations. Here's a good list:

<i>Sweet Alyssum</i>	<i>Marigold</i>
<i>Ageratum</i>	<i>Petunia</i>
<i>Swan River</i>	<i>Phlox, Annual</i>
<i>Daisy</i>	<i>Poppy, California</i>
<i>Bachelor Button</i>	<i>Portulaca</i>
<i>Cosmos</i>	<i>Scabiosa</i>
<i>Dianthus</i>	<i>Zinnia</i>
<i>Dimorphotheca</i>	<i>Four O'Clock</i>
<i>Gaillardia</i>	<i>Salvia</i>

Perennials for hot locations are less plentiful, but you can usually do well with *Babysbreath*, *Perennial Asters*, *Sedum Acre*, *Statice*, and *Blanket Flower* (*Gaillardia*).

For Successive Sowings

Some of the annuals which come into bloom quickly keep blooming for only a little while. If you want them in bloom through the season, make several successive sowings at two to four week intervals. Flowers in this class include:

<i>Calliopsis</i>	<i>Larkspur</i>
<i>Candytuft</i>	<i>Love-in-a-mist</i>
<i>Cornflower</i>	<i>Mignonette</i>
<i>Forget-me-not</i>	<i>Poppy</i>
<i>Gypsophila</i>	

Do Annuals and Perennials Need Lime?

Yes, flowers need calcium, which lime supplies. However, it is possible to get too much lime. Soils that have a pH of much over 7.2 may need something to make them more acid. From 0.0 to 6.9 is acid or "sour," while 7.0 and above is alkaline or "sweet." All the gardener needs to know about pH is that if he will keep his soil between 6.0 and 6.9, the plant food elements in his soil will be most readily available. Above that, iron, sulfur and other elements lock up and are not available. Below that, other elements, principally calcium, cannot be used by plants. A simple \$1.00 soil test kit will give you a pH reading of your soil and tell you what to do to correct it.

Don't Sprinkle—Irrigate

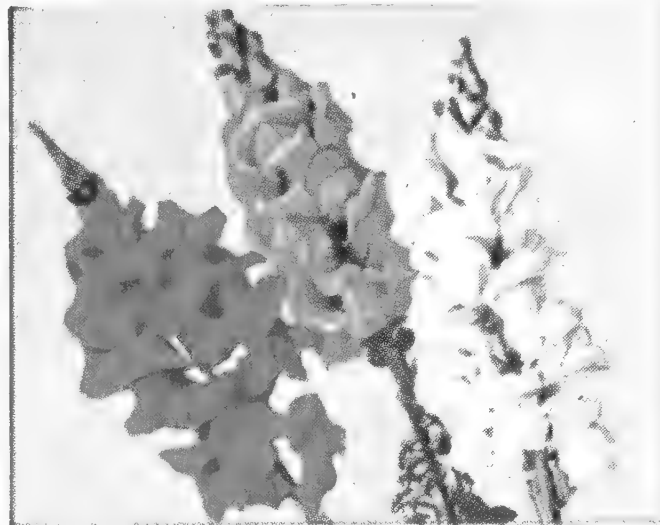
Old timers talk about sprinkling a garden. Irrigation describes what we are after better than sprinkling, because what we want is a long, slow soaking of the soil so that water penetrates to a depth of several inches.

Water should always be applied so that the roots will be lured downwards rather than growing upwards as is the case when only the surface is moistened. Properly done watering need not be repeated oftener than once or twice a week.

An excellent way to apply large amounts of water is by means of the Soil Soaker, which allows water to ooze out slowly onto the surface. For small areas, remove the hose nozzle and allow the stream of water to flow out onto a board to break its force.



ASTER, Wilt-resistant



ANTIRRHINUM, Semi-tall



AQUILEGIA, Long-spurred



CHRYSANTHEMUM, Painted Daisy



DIANTHUS, Lacy Single

PANSY (a) (s)—See Page 31 for Special Culture.

Swiss Giants—Plants exceptionally strong and robust. Flowers unusually large, perfectly round with overlapping petals of heavy substance; long sturdy stems. Pkt. 50c.

TUFTED PANSY—See Viola.

PERIWINKLE—See Vinca.

PETUNIA (a)—Culture, Large Flowered, I; Small Flowered, I or IV.

America, All Double—All-America. Carnation-flowered. Mauve-pink, 2-in. blooms completely cover compact plants 1 ft. tall with spread of 18-in. Very early; bloom till frost. Pkt. 50c.

Blue Bee—Single, small flowering. A lovely blue. Pkt. 15c.

Burgundy—Large flowering, single, plain edged. Rich wine red with contrasting white throat. Pkt. 25c.

Cheerful—Single dwarf, small flowering. Gay salmon-pink, veined with rose toward throat. All-America. Pkt. 25c.

English Violet—Single dwarf, small flowering. A distinct new color. Rosy mauve-violet. Free flowering. Pkt. 20c.

Flaming Velvet—Single, plain edged. Rich velvety-crimson. The best of its color. Pkt. 20c.

Fluffy Ruffles—Very large, finely fringed and so heavily ruffled they appear double. Delicate light shades. Pkt. 25c.

General Dodds—Velvety vivid dark crimson. Pkt. 15c.

Giants of California, Mixed—A well balanced mixture of large fringed, ruffled flower, light and dark shades. Pkt. 25c.

Glamour—All-America. Huge 5-6-in. blooms; appear when plant only 6-in. First appear dbl., then petals fall back. Pkt. 25c.

Glow—Dazzling carmine-red flowers, completely cover the dwarf mound-like plants. All-America Silver Medal. Pkt. 25c.

Howard's Star—Red purple with distinct white star. Single.

Martha Washington—Blush pink deepening to dark violet at the throat; ruffled. Dwarf plants. Pkt. 25c.

Rose of Heaven—Rich crimson rose, with inconspicuous white throat. Single flowers. Dwarf plants. Pkt. 15c.

Rosy Morn—Rose-pink, with white throat. Pkt. 15c.

Snow Storm—Glistening white 4 to 5-in. flowers, shadowing yellow in the throat. Single, plain edged. Pkt. 20c.

Theodosia—Huge single, fringed; rose, gold throat. Pkt. 25c.

Balcony Type Petunias—White, rose, red, blue. Pkt. 20c.

PHLOX (a)—Culture II. One of the easiest grown and most satisfactory of all summer-flowering annuals. Begins to bloom early summer and lasts until frost if faded flowers are removed. Red, rose, or mixed, Pkt. 15c.

PINKS—See Dianthus.

PINCUSHION FLOWER—See Scabiosa.

POPPY (a)—Culture IV; (hp) Culture VI.

American Legion (a)—Enormous orange-scarlet Shirley.

Sweet Briar (a)—Flowers resemble double Begonias in form and contain an assortment of lovely light shades. Pkt. 15c.

Shirley, Mixed (a)—Pink, salmon, apricot.

Iceland Poppy (hp), Mixed—Immense blooms, very long stems. Excellent color balance. Blooms first year.

Oriental Scarlet (hp)—Flowers over 6-in. across, vivid scarlet. May be left undisturbed for years. Pkt. 15c.

California Poppy—See Eschscholtzia.

Santa Barbara or Mexican Tulip Poppy—See Hunnemannia.

GEUM
Mrs. Bradshaw



PORTULACA (Moss Rose) (a)—Culture III.

Jewel—Four times as large as the original Portulaca; brilliant deep crimson color. Free flowering. Pkt. 25c.

Single Mixed

Double Mixed—Pkt. 15c.

POT MARIGOLD—See Calendula.

RICINUS—See Castor Bean.

SALVIA (Flowering Sage) (a)

American, or Globe of Fire (Scarlet Sage)—Culture I. Loose sprays of rich scarlet blooms. Very uniform. Pkt. 25c.

Blue Bedder—Culture I, II or VI. A rich Wedgewood blue. Can be dried as an Everlasting. Pkt. 20c.

SALPIGLOSSIS (Painted Tongue) (a)—Culture III. Large lily-like, velvety flowers. Many bright colors.

SATIN FLOWER—See Godetia.

SCABIOSA (Mourning Bride or Pincushion Flower) (a)—Culture III or IV.

Blue Cockade—Deep azure blue, dbl. conical flowers. Pkt. 15c.

Blue Moon—Double flowers made up of heavy, wavy petals without the usual pincushion center. Lavender-blue. Pkt. 15c.

Heavenly Blue—All-America. Round, azure-blue flowers. Pkt. 15c.

Peace—All-America. Pure white 2-in. flowers, with no tinge of pink or mauve. Vigorous plants. Pkt. 15c.

Rosette—Deep rose suffused salmon color. Double Pkt. 15c.

Mixed—

SCARLET FLAX—See Linum.

SCARLET SAGE—See Salvia.

SCHIZANTHUS (Butterfly-Flower or Poor Man's Orchid) (a)—Culture II or IV. Bushy plants covered with dainty flowers like tiny butterflies. Finely lacinated foliage. Very showy plant. Pkt. 25c.

SHASTA DAISY, Alaska (hp)—Culture VI. Giant flowers, hardy plants. Easily grown from seed.

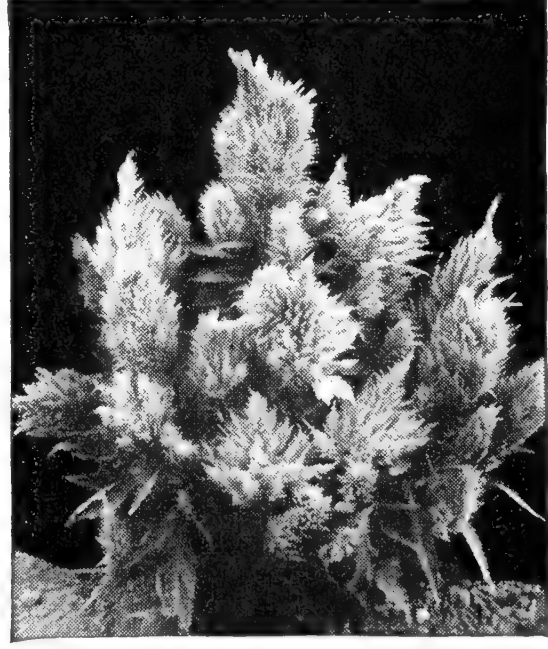
SNAPDRAGON—See Antirrhinum.



MARIGOLD, French Dwarf



CALENDULA, Frilled Beauty



CELOSIA, Feathered

SNOW-ON-THE-MOUNTAIN (Euphorbia) (a)

—Culture III. Very showy plant, 2 ft. tall; foliage edged white and green. Small white flowers.

STAR GLORY—See Cypress Vine.

STATICE (Sea Lavender) (a)—Culture I. Masses of dainty flowers in large panicles, giving a mist-like effect. When dried, flowers last for months. Pkt. 20c.

SPIDER PLANT—See Cleome.

STRAW FLOWER—See Everlasting Flowers.

STOCKS (Gilliflower) (a)—Culture I or IV.

Giant Imperial—Large flowers, long stems, high percentage of doubles. Many colors. Very early. Pkt. 25c.

Beauty of Nice—Mammoth double. Flesh color. Pkt. 15c.

Large Flowering Dwarf Ten Week, Mixed—

SUNFLOWER—See Helianthus.

SWEET PEAS (a)—Culture III.

Early Flowering Spencer—Individual colors and mixed. Pkt. 15c.

Late or Summer Flowering Spencer—Extremely hardy, productive. Heat resistant. In individual colors, or mixed. Pkt. 15c.

Ruffled Spencer—Lovely ruffled flowers, many varieties of individual colors, and mixed. Pkt. 15c.

Perennial Sweet Pea (Lathyrus Latifolius) (hp)—Culture VI. Climbing vine with clusters of sweet-pea-like flowers.

SWEET SULTAN, Imperialis (a)—Culture II or IV.

Artistic shaped flowers; long strong stems. Have soft fragrance.

SWEET WILLIAM (Dianthus Barbatius) (hp)

—Culture VI. An old-fashioned flower with delightful fragrance. Clusters of many colors and combinations. Double Mixed, Pkt. 15c; Single Mixed, Pkt. 10c.

THRIFT—See Armeria.

TICKSEED—See Calliopsis.

TITHONIA, Fireball (Mexican Sunflower or Golden Flower of the Incas) (a)—Culture I. Dazzling scarlet, large single flower. Plants 6 to 8 ft. tall.

TRITOMA (Red Rot Poker) (hp)—Culture VI. Tall spikes topped by narrow, tubular flowers from pale yellow to orange-red. Require protection during winter, unless in very sheltered position. A handsome, showy border plant.

VERBENA (a)—Culture I.

Lavender Glory—All-America. A true lavender with medium-sized creamy white eye. Distinctly fragrant. Pkt. 15c.

Mammoth White—Dwarf plants with huge heads. Pkt. 15c.

Scarlet Queen—Rosy scarlet, large white eye. Gigantea type; single florets 1-in. in diameter. Pkt. 15c.

Shades of Blue, Mammoth Type—

Mixed—Pkt. 15c.

VINCA (Periwinkle) (a) (s)—Culture III. Bushy plants; dark green glossy foliage; large single round flowers. Mixed colors. Nice pot plant.

VIOLA (Tufted Pansy) (hp)—Culture VI. Smaller flowered than pansies. Easily grown. Ht. 6-in. Pkt. 20c.

WALLFLOWER, Annual Single, Mixed (a)—

—Culture I or V. Creamy white, yellow, light brown, red, sweet scented flowers on 1 ft. plants.

WILD FLOWER MIXTURE—Culture II or III. Splendid mixture of old-fashioned garden flowers, various kinds and colors, for interesting border plantings.

ZINNIA (a)—Culture I or II.

Black Beauty—All-America. Deep velvety maroon, Lilliput or pompon. Effective with lighter colors. Pkt. 15c.

Crown of Gold—Giant flowers, petals deep golden yellow at base, with individual colors at tip. Pkt. 15c.

Dahlia Flowered—Yellow, red, pink, orange. Pkt. 15c.

Fantasy Zinnias—Shaggy, twisted petals.

Melody (orchid lavender); **Star Dust** (clear golden yellow);

Wildfire (scarlet); **White Light** (white); also **Mixed**, Pkt. 15c.

Giants of California—Immense double flowers, overlapping petals long strong stems. **Mixed**, Pkt. 15c.

Lilliput or Pompons—Dwarf bushy plants covered with 1-in. double blooms. **Pastel Mixture** (pastel shades) or **Mixed**.

Linearis—Deep orange-yellow single 1½-in. blossoms, each petal with narrow yellow stripe down center. Pkt. 15c.

All Flower Seeds 10¢ PER PACKET
except where otherwise noted

Mexicana or Miniatures—Small double and semi-double blooms; shades of yellow, orange, red, maroon; some tipped with gold.

Navajo—Medium size, semi-double and double blossoms with long narrow petals, each tipped white or cream. Lilac, russet, crimson, orange, yellow, pink and other pastels. Pkt. 15c.

Pumila Sunshine Tints—Symmetrical 2½-in. flowers, in autumn tints and pastel shades. Pkt. 15c.

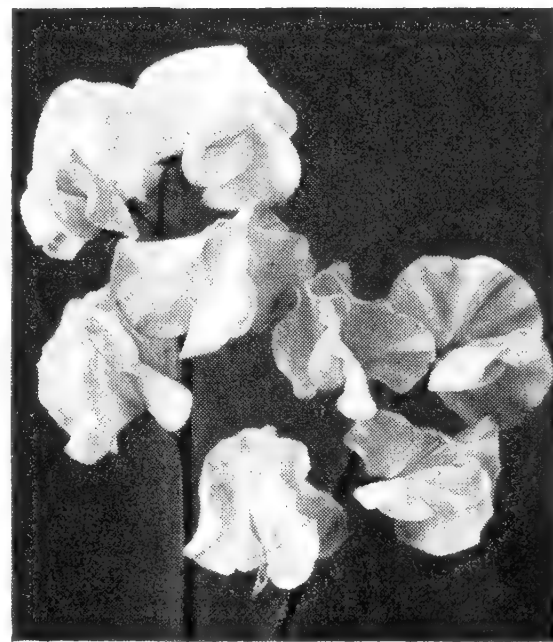
Scabious Flowered—Medium sized flowers, resembling the Scabiosa and Harmony Marigold. Many colors. Pkt. 15c.

Super Crown O'Gold, Pastel Tints—Large flowers in pastel shades, each petal overlaid at base with golden yellow. Pkt. 15c.

Tom Thumb Lilliput—Compact plants only 4 to 6-in. tall, covered with pompon flowers. Red, orange, yellow, pink, rose. Pkt. 15c.

Will Rogers—A striking new red. Blooms 6-in. across and often 4-in. deep, resembling the show Dahlia. Pkt. 15c.

NOW the famous CUTHBERTSON SWEET PEAS available to all!



Last year we offered this particular variety of Sweet Pea on a very limited scale. The reports received were so numerous and so highly favorable that we have decided our stock should be increased to make Cuthbertson Sweet Peas available to all. They are offered in the following colors and also in mixture.

TOMMY—Blue

DAVID—Rose-crimson

CAROL—Clear pink

MARION—Cream

KENNETH—Crimson

FRANK G—Lavender

JESSIE—Mauve

LOIS—Rose-pink

KATIE—Cream-pink

EVELYN—Salmon-pink

COLINS—Scarlet

JANET—White

Flower Garden PLANTING GUIDE

KEY—For classification of flowers by purpose, location, etc., see the second column below. The meaning of the key letters in this column is as follows:

- | | |
|------------------------------|-----------------------------------|
| A—For dry, hot locations | G—For their foliage |
| B—For a succession of blooms | H—Everlasting for winter bouquets |
| C—For shady locations | I—For their fragrance |
| D—For poor soil | J—For porch or window boxes |
| E—For edging | K—Climbing Vines |
| F—For the rock garden. | L—For backgrounds |

	Height (Inches)	Suitable for	Average Days to Germinate	Approx. Time of Bloom	Shape of Plant
Ageratum	4-12	E F J	5-10	10 Wks.	bushy
Alyssum, Sweet	2-12	B C D E F I J	5-10	6 Wks.	spreading
Antirrhinum	12-60	C I L	20-25	3-4 Mos.	bushy
Aquilegia	18-36	C E F	15	3 Mos.	branchy
Balsam	14-20	A E	10-12	6 Mos.	erect
Calendula	12-36	D	10-14	12-14 Wks.	bushy
Campanula	18-24	F	8-15	10-12 Wks.	bushy
Candytuft	6-18	B F I	5-10	8-10 Wks.	bushy
Centaurea	18-36	A B C D E I J	5-20	3-4 Mos.	erect
Chrysanthemum	24-36	A E	5-20	8-10 Wks.	bushy
Celosia	12-36	D E H	20-25	10 Wks.	bushy
Cosmos	36-60	A	5-15	10-12 Wks.	bushy
Coreopsis	18-36	A B D	10-20	4-5 Mos.	bushy
Dahlia, Dwarf	14	F	10	3-4 Mos.	bushy
Delphinium	36-72	L	15-21	3-4 Mos.	tall
Digitalis	30-48	F	10-20	3-4 Mos.	erect
Dianthus	4-15	F I	5-10	12 Wks.	bushy
Eschscholtzia	10-12	C D F	5-12	12-15 Wks.	bushy

Four O'Clock	24-30	A D	5-10	3-4 Mos.	bushy
Gaillardia	18-30	D	15-20	2-3 Mos.	bushy
Godetia	12-24	C D	15-20	2 Mos.	erect
Gypsophila	18-36	B H	15-20	8-10 Wks.	branching
Helichrysum	24-36	H	5-10	3 Mos.	bushy
Hollyhock	48-84	L	5-20	10 Wks.	slender
Kochia	30-36	A B	15-18	Foliage	bushy
Larkspur, Annual	30-72	L	15-20	10-12 Wks.	tall
Lathyrus	60-72	I K	25-40	2-3 Mos.	vine
Lobelia	4-8	E J	10	10-12 Wks.	bushy
Marigold	8-36	B J	5-8	6-8 Wks.	bushy
Mignonette	10-12	B I		3-4 Mos.	erect
Moon Flower	12 ft. or more	I K	5-8	4-5 Mos.	vine
Morning Glory	12 ft. or more	A K	5-8	3-4 Mos.	vine
Nasturtium	12-36	D E F K	8-15	2-3 Mos.	bush. vine
Nigella	10-18	B F	10-15	10-12 Wks.	bushy
Nicotiana	30-48	I	20-25	10-12 Wks.	branchy
Pansy	4-8	C E F	10-15	10-12 Wks.	clump
Petunia	10-24	D E F J	18-20	10-12 Wks.	bushy
Phlox	10-18	A B C F I J	20-25	8-10 Wks.	bushy
Poppy	18-36	B	20	12-15 Wks.	erect
Portulaca	4-6	A D E F J	18-20	6 Wks.	spready
Salvia	12-42	A	15-25	3-4 Mos.	bushy
Scabiosa	18-30	I	18-20	2-3 Mos.	bushy
Stocks	12-24	I	5-15	12-14 Wks.	bushy
Schizanthus	18-36	C E	20-25	6-8 Wks.	bushy
Sweet Pea	36 or more	K	15-20	10-12 Wks.	vine
Sweet William	12-24	F	10	12 Wks.	bushy
Verbena	6-12	E F J	8-10	12 Wks.	spready
Wallflower	12-18	I	5-12	2-3 Mos.	bushy
Zinnia	12-36	A F	5-10	6-8 Wks.	bushy

In all the world, NO FINER FLOWER SEEDS THAN OURS!



PETUNIA, All Double

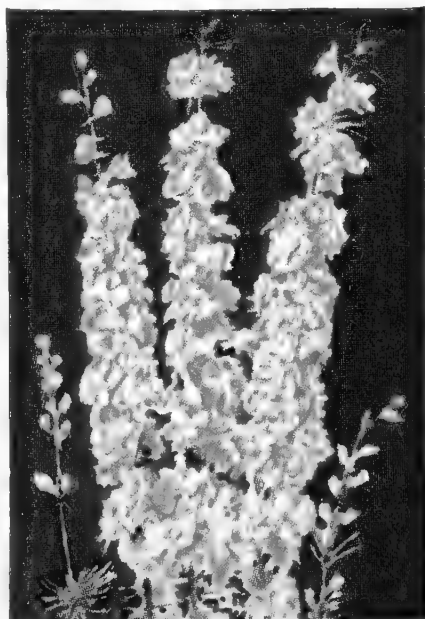
You may search the land over, but you cannot find flower seeds any better than those we sell! We can give you this absolute assurance because we sell only the tested seeds of the best growers... and we always make sure they are fresh, new crop seeds.



MARIGOLD, Sunkist



COSMOS, Dazzler



LARKSPUR, Ruby



PETUNIA, Glow

GARDEN SUPPLIES

BIRD HOUSES AND FEEDERS

Window Bird Feeders—Provides an opportunity to study your bird companions from your window. Ideal for shut-ins and a real form of companionship for any person who is fond of birds.

Bird Houses—A great deal of pleasure can be derived from the birds that will be attracted to your yard by putting out a bird house or two. We carry many types and styles for bird lovers to choose from.

WILD BIRD SEED MIXTURE

Feed your feathered friends the year round with this tempting mixture. All types of wild birds relish this seed. Don't forget to give them plenty in the winter months when food is scarce.

FLOWER HOLDERS

Dome Type Nev-r-Tip. Heavy cast alloy, non-rusting. 1 3/4 in. diameter, 35c; 2 1/2 in. diameter, 45c; 3 3/8 in. diameter, 70c.

Pin Type Nev-r-Tip. Constructed with a heavy cast alloy base supporting needle-pointed, solid brass pins closely arranged. Round, 1 1/2 in. diameter, 35c; Round, 2 1/4 in., 50c; Round, 3 1/8 in., 90c.

GARDEN GLOVES

Garden Gloves—Protect your hands—wear gloves in your garden! Canvas or leather, in sizes for men and women.



Stony Brook GARDEN LINE

Keep your garden neat. Make lawn edges and vegetable rows as straight as the proverbial die. Rust-proof, aluminum spool with 150 feet of line on strong, waterproofed, brightly lacquered stakes. A handy garden help and an ideal gift for a gardener friend.

Only \$1.25

GARDEN HOSE

VISIT OUR STORE for our newest offerings. Garden hose is now available in good quality and quantity. Ask about new, improved hose reels, too.

LABELS

Pot or Garden Labels (Wooden)—Used for marking plants in pots or seed flats.

4 in.	60c per 100
6 in.	75c per 100
12 in.	\$1.95 per 100

Wood Tree Labels, Wired. Painted wooden labels equipped with wires, for marking trees or shrubs; also used extensively for labeling dahlia tubers.

100	1000
3 1/2 x 5/8 in.	\$0.75 \$4.25

PLANT BANDS

Square bands will hold almost twice the number of plants as round pots of the same size. Facilitate handling when transplanting. 2 in. size, packet of 30, 25c. (Ask for prices on larger sizes and quantities.)

PLANT SUPPORTS

Bamboo Stakes—Green, pencil thickness.

	Per 100	Per 1000
2 ft.	\$1.40	\$ 8.25
3 ft.	1.75	11.50
4 ft.	2.25	16.95

Dahlia or Garden Stakes—Wooden—Painted green. Strong and durable. Almost rot-proof. Will last several seasons. For supporting dahlias, young trees, etc.

	Doz.	100
4 ft.	\$2.15	\$14.25
5 ft.	2.75	17.50
6 ft.	3.25	21.75

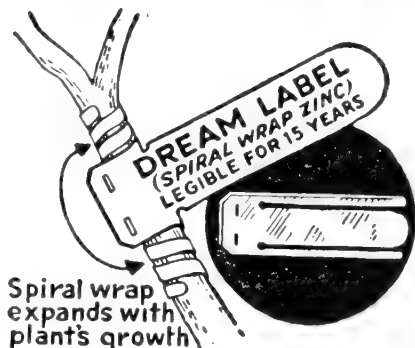
POTS AND SAUCERS

Standard Earthen Flower Pots. A wide range of sizes, from 2 1/2 in. to 12 in. diameter.

Earthen Flower Pot Saucers. 3 in. to 12 in.

Red Paper Pots. Made of water-proofed paper. Excellent for growing seedlings or for packing plants for shipment. Nicely finished and long lasting. 2 1/4 in. to 6 in. diameter.

DREAM PLANT LABEL



The newest, best, most permanent and economical plant and pot label ever devised. Your notations actually etched on metal. Weather and fire proof. Attached in 30 seconds to roses, azaleas, trees, shrubs, vines and plants. Records facts for many years. Etching ink and writing applicator supplied with every package. Can't cut bark. Expands as plant grows.

"KIT" size, 24—4" Zinc LABELS, one oz. of Etching Ink (enough for 200 labels) and a writing applicator, 85c.

"50 UNIT" size, 50—4" Zinc LABELS, one oz. of Etching Ink and applicator, \$1.50.

"1000 NURSERY" size, 1000—4" Zinc LABELS, 5 oz. of Etching Ink and applicator, \$19.00.

TYING MATERIALS AND DEVICES

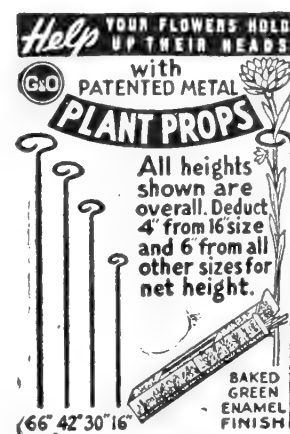
Raffia, Natural. A palm-fibre used for tying plants, bunching vegetables, weaving, and basketry. 1/2-lb. pkg. 65c. In braids (uneven weights) just as pulled from the bale, 90c per lb.

RAFFIA—Green Dyed—The best tying material for plants or other purposes requiring a strong fibre tie. Also used for basket making. 85c per lb.

PLANT TIES—Dark green tapes with wire reinforcing that makes perfect plant tie. A twist of the wrist and the plant is tied. Used by vegetable and market gardeners for staking and bunching. 7 in. 250 for 50c.



METAL PLANT PROPS



(a) Just hook 'em in—the job's done.

(b) Support Flowers, Vegetables better.

(c) Termite and rot proof. No Rag Ties.

(d) Baked in garden green enamel.

(e) So simple a child can place.

(f) Processed stiff steel of varying thicknesses to suit required support.

16" size, 55c doz.; 30" size, \$1.10 doz.; 42", \$1.35 doz.; 66", \$2.25 doz.; 78", \$3.30 doz.

FENCE RODS

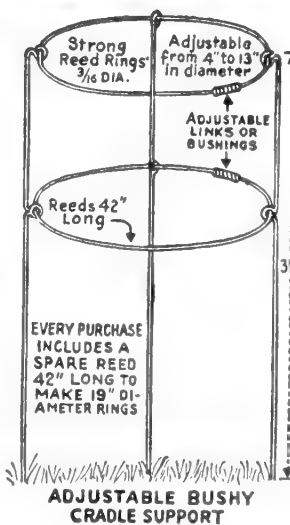
Handy 1/4" diameter sturdy "jiggers" to protect, keep dogs and children from damaging plants, etc. Run rope or wire through loops and "cradle up" bushy plants. Green enameled. Price \$1.35 per dozen.

WICKETS

METAL 21" high 13" wide

4 ft. end to end, 1/4" diameter, 21" high by 13" opening. Green enameled. No prongs to tear or scratch. Keeps traffic away. Markers for sidewalk lawns. 50 different practical garden uses. Price \$1.65 per dozen.

ADJUSTABLE BUSHY CRADLE SUPPORT



Support for Peonies, "Mums," Tomatoes, Shrubs, etc., adjustable from 4" to 19" diameter. Double rings of thick rattan reeds. Lasts for 5 years. 3 sturdy steel green enameled 39" high rods with double eyes. Will prove a revelation to old time gardeners. Parts assembled in 2 minutes. So simple for storing. Reeds can't cut or burn stems. Price, complete in shipping carton, 65c.

'GRO-QUICK' ELECTRIC SEED BED HEATER

"ROOT CUTTINGS IN 6 DAYS"
"SEED UP IN 30 HOURS"
"CUT GERMINATION TIME BY 2/3"
"TRANSPLANT 2 WEEKS SOONER"

These enthusiastic reports from users tell what **GRO-QUICK SOIL HEATING CABLE** will do for you. Send today for testimonials and free, new instr. sheet with plans. For hotbeds—cold frames—unheated greenhouses—plant benches—for early plant starting in open ground. Operates from household current.

JUNIOR 40' Cable, 200 watt with thermostat for 3x6 bed or 20 sq. ft. \$5.35

SENIOR 80' Cable, 400 watt with thermostat for 6x6 bed or 40 sq. ft. \$6.95

WEED-WAND—the Spot Weed Killer

Kills 2,000 weeds with a cent's worth of 2,4D. Just press the end of the Wand on the weed—and it's good-bye weed! Automatic capillary wick action dispenses 2,4D without waste. No stooping, no spraying. Price \$1.00.

HOW? WHEN? WHERE? WHY? . . . in Plant Feeding

As every gardener knows, good seed alone can't make a successful garden. No matter how good the seed, it needs proper feeding. Like any living thing, it must be nourished.

As seedsmen, we do everything in our power to bring you the finest of seeds. We select seeds with the right heritage, with the inborn qualities that are needed to win out in the battle every growing thing must fight.

But once our good seed is in your hands, the rest is up to you! So—in your plans to get the best possible results from our good seed, consider carefully the information on plant feeding which we give you here.

Actually, plant feeding nowadays is a rather simple, easy job. While plants need many different elements of food for best growth, all these elements can be provided by one complete balanced plant food such as Vigoro. Without odor or muss, the modern balanced plant food takes care of all the usual plant needs of the garden—and does it inexpensively.

As to the questions of "how, when, where and why"—most of the information you need can be told in a few words. The basic routine of plant feeding for the home garden and lawn is this:

For LAWNS:

Follow these 3 steps . . .

1. Check to see that grass is dry!
2. Apply evenly 4 pounds of complete plant food per 100 feet of area, either with a spreader or by hand.
3. Soak the plant food into the ground immediately after applying.

If water is not available merely work the plant food off blades of grass with back of rake. NOTE: If plant food is applied early, before growth starts, steps 1 and 3 do not apply. Early thaws and spring rains work the plant food into the soil.

For FLOWERS, VEGETABLES, BERRIES . . .

Apply complete plant food at the rate of 4 pounds per 100 square feet of area before seeding or setting plants. For established perennials apply around plants or along both sides of row early in Spring and at six to eight week intervals.

For TREES . . .

Make a series of holes 12 to 18 inches deep with a 2" soil auger or a pointed stick under the drip of the branches. Figure the plant food need per tree by measuring diameter four feet from the ground and allowing 3 pounds of complete plant food per inch of diameter. Fill holes with a

mixture of half plant food and half soil or sand.

* * *

As to your choice of plant food:

We recommend VIGORO because of its unexcelled balance and its long record of unfailing reliability.

New gardening aids by the makers of Vigoro

Gardeners in our area are getting a lot of help from two other gardening aids now presented by Swift & Company, the makers of Vigoro.

These new essentials are EndoPest and EndoWeed.

EndoPest provides the wide range of protection most gardens need against chewing insects, sucking insects and fungus disease. It comes ready to use in a patented dust gun package. Also available in large economical packages for use in standard dust guns.

EndoWeed is improved selective lawn weed killer. It kills over 100 weeds, roots and all. And it is easy to apply with the new EndoWeed Side Spray that applies diluted EndoWeed to the side while you walk. No pumping . . . no wet feet. Ask us about these valuable gardening aids. You'll find them a real help in making your gardening easier—and more successful.

VIGORO... complete, balanced plant food

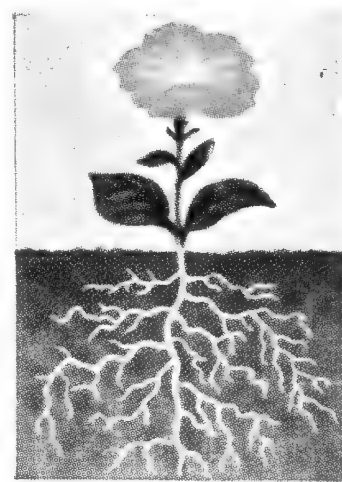
Develops humus in lawn soil!

Vigoro helps develop large root systems. Each year as part of the old roots decay, humus (organic matter) forms in the soil . . . dark, fertile! Your soil becomes more capable of sustaining your lawn through every season . . . a better storehouse for moisture and plant food.



Nourishes the whole plant!

Vigoro extends its benefits to blooms, stems, and roots. Gives good color to foliage—promotes quick growth and makes roots strong. It also strengthens stems, increases size and heightens color of blooms—promotes better general health of plants.



PLANT FOODS

ALUMINUM SULPHATE—A material used in creating acid soils necessary for successful culture of Azaleas, Rhododendrons, and similar plants.

BONE MEAL—All-purpose fertilizer, rich in the two principal plant foods—nitrogen and phosphoric acid.

COW MANURE—Fine and dry. Heat-treated to kill all weed seeds. Excellent for garden, lawn and greenhouse. Absolutely weedless. Builds up the soil and feeds plants in nature's safe way.

FRUITONE—The remarkable hormone spray that stops pre-harvest drop of fruit. Sprayed on flowers of tomatoes it makes a high percentage of the crop **SEEDLESS!** Also beneficial on beans and on flowers.

HORMODIN POWDER—A powerful help for transplants and root cuttings. Use it on house, garden, and greenhouse plants, shrubs, evergreens. (See display below.)

HUMUS—One of the best soil conditioners. Makes soil more workable and helps it hold moisture. Not a substitute for fertilizer, but an excellent companion for it. In convenient sized packages.

HYPONEX—Grows bigger and better house plants, flowers, vegetables, lawns and trees in poorest soil—even in sand, cinders, or water. Doesn't burn. Clean, odorless, soluble powder. 1 oz. pkg., 10c; 3 oz. pkg., 25c; 1 lb., \$1.00; 10 lbs., \$8.00.

LIME (Hydrated)—Sweetens sour soil for lawns, and clover. Is used as a reducer and in combination of many insecticides; for whitewash, deodorizing.

LEGUME INOCULATION—Just as necessary for garden peas and beans, lima beans, sweet peas and lupines as for alfalfa, clover, etc. The nitrogen-gathering bacteria build up the soil, increase your yields.

INOCULATION is the cheapest form of crop insurance. Packages from the 10c garden size up to 5-bushel size.

NITRAGIN—Restores and maintains soil fertility. This original legume inoculator contains billions of efficient nitrogen-gathering germs, builds up the soil. Dated to insure freshness.

NITRATE OF SODA—Very quick source of nitrogen. Hastens maturity of crops. Should not be applied until plants are well above ground.

NO-SEED—Hormone spray. Prevents blossom-drop on Tomatoes, greatly increasing crop. Also causes high percentage of seedless fruit.

PEAT MOSS—Fine for garden mulch, as it conserves moisture. When incorporated in the soil, it promotes growth and supplies humus, which is very essential for growing plants. Fine winter protection for lawns; also as a mulch on strawberry, perennial beds, roses, evergreens, etc.

PLANTABBS—Clean, white odorless plant tablets for indoor or outdoor use. See below.

ROOTONE—You can help cuttings to root faster by dipping them in the hormone powder, Rootone, before planting. Percentage of successful rooting is increased remarkably by this new treatment.

ROSE FOOD—A balanced combination of organic ingredients, selected for the particular "make-up" and sequence availability that roses need. Improves the color and size of your roses.

SHEEP MANURE—An economical and effective balanced plant food. Excellent for lawns, gardens and general use. Most extensively used of animal manures in feeding of lawns and gardens. Weed-free and rapid in its action. Supplies an abundance of humus and all the essential plant-food elements.

SUDBURY SOIL TEST KITS

Do your own soil testing! Kits are simple, practical, easy to use. Let you determine just how to fertilize and lime for best results. **Complete kit, good for 20 individual tests, \$2.00.**

Earlier Tomatoes

WITH NO-SEED BLOSSOM-SET

NO-SEED sets the blossoms chemically, prevents them from falling, thus produces ripe fruit 1 to 4 weeks earlier. Helps peppers, cucumbers, eggplant, squash, beans, and berries, too.

20 to 40% greater yield

You get over 90% blossom-set with this remarkable hormone spray. Resulting increases in yield of early crops are amazing, often as high as 40%!

Not only more yield, but many seedless tomatoes and larger fruits with improved flavor!

Tested by Dept. of Agriculture, University Experiment Stations, etc.

1/2 gal. size, 60c; 1 gal. size, \$1.00; 4 gal. size, \$2.50.



SUPER PHOSPHATE—Aids plant nutrition and assists the plant to assimilate other ingredients. An efficient fertilizer element for lettuce, truck crops, cereal crops and alfalfa.

TRANSPLANTONE—Remarkable new Vitamin-Hormone stimulant effective in reducing transplant shock, and wilt of all kinds of plants or shrubs. Also effective in bringing about earlier maturity on tomatoes, lettuce, celery, peppers, tobacco and cabbage.

VIGORO—The complete plant food. Supplies all the elements growing things need from the soil. Because it offers such complete nourishment, Vigoro helps produce greater yields of finer flavored, more nutritious vegetables. Produces lovelier lawns and flowers. Clean and odorless.

ROSE-FOOD



... at last, a real organic, no-filler fertilizer, **ESPECIALLY FOR ROSES!**

You can't feed roses "good - for - everything" commercial food and get the color, size of bloom and stock you want! G & O Rose Food is specialized — a balanced combination of **ORGANIC** ingredients—selected for the particular "make-up" and sequence availability that roses need. **TRY IT** —and see what a difference it makes!

The largest selling specialty food in America—g r a d u a t e d with top honors from the largest rose growers.

Same prices as last 5 years

1 lb., 20c; 5 lbs., 65c; 10 lbs., \$1.25; 25 lbs., \$2.65; 100 lbs., \$9.60.



ROOT CUTTINGS WITH HORMODIN POWDER

Reg. U. S. Pat. Off.

This Hormone Powder produces better roots—faster! Simply dip moistened stems in Hormodin Powder and place in usual propagating medium. For house, garden, and greenhouse plants use Hormodin Powder No. 1; also available as Powder No. 2 for woody types, and Powder No. 3 for evergreens.



Grows bigger, better house plants, flowers, vegetables, lawns, and trees in poorest soil—even in sand, cinders or water. Results sure. Doesn't burn. Clean, odorless, soluble powder. 1 oz. makes 6 gallons.

	Retail
1 oz. pkt. (packed 72 to case)	10c
3 oz. can (packed 36 to case)	25c
7 oz. can (packed 24 to case)	50c
1 lb. can (packed 12 to case)	\$ 1.00
10 lb. drum, makes 1000 gals.	8.00
25 lb. drum, makes 2500 gals.	15.00
50 lb. drum, makes 5000 gals.	25.00
100 lb. drum, makes 10,000 gals.	40.00

NEW LIFE FOR POTTED PLANTS, GARDEN FLOWERS & VEGETABLES

PLANTABBS put new life and vigor into all plants, both indoor and out. You can have beautiful ferns, geraniums, begonias, ivy, African violets, gardenias simply by feeding them **PLANTABBS**.

VEGETABLES, too, grow vigorously—produce big, early yields when given an extra boost by these **PLANT FOOD** tablets. Easy to use. Clean, white, odorless—will not burn tender plants. **Results or money back.** Four sizes—25c, 50c, \$1, \$3.50.



Fulton's PLANTABBS

NOTE—Shipping costs are extra on all Garden supply items.

FRUITONE

REG. U. S. PAT. OFF.

FRUITONE, the hormone spray for stopping premature drop of fruit, flowers, and leaves. Sprayed on flowers of tomatoes or beans, it produces better set, larger crop, and high percentage of seedless tomatoes. Makes Christmas greens hold their leaves longer. 2/5-ounce packet, 25c. 2-ounce package, \$1.00. 12-ounce can, \$5.

ROOTONE

Reg. U. S. Pat. Off.

The Plant Hormone Powder

This nationally known hormone powder makes cuttings root faster and more successfully. It stimulates seed germination so that rooting is heavier and you get a better stand of seedlings. Endorsed and used by leading growers everywhere. Trial packet 25c—2 oz. jar \$1.00—1 lb. can \$5.00.

TRANSPLANTONE

Reduces shock and wilt when plants are moved. Produces earlier maturity on tomatoes, lettuce, celery, peppers, tobacco and cabbage. Used on plants, shrubs and trees it encourages growth and bloom. One teaspoonful of powder makes 10 gallons of solution. Trial packet 25c—1 oz. can 50c—3 oz. can \$1.00—1 lb. can \$4.00.

SOLLY'S GARDEN BOOKS

"Hardy Bulbs"—Full directions for the culture of all SPRING FLOWERING BULBS. Generously and colorfully illustrated. Price \$2.00

"Growing Vegetables In The Northwest"—New revised edition of Cecil Solly's popular book. 144 pages of practical information on gardening. Well illustrated. Price \$1.00

GARDEN NOTE BOOKS—

No. 1—Lawn—Planting and care.

No. 2—Roses—Roses are easy to grow . . . if you start right.

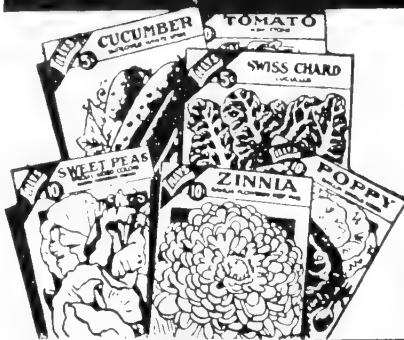
No. 3—Fruit Trees—Planting and care. Lists best varieties.

No. 4—Berries—It's easy to produce heavy crops.

No. 5—Bush Fruits—Blueberries, Grapes, Figs, Gooseberries, etc.

No. 6—Camellias, Rhododendrons—Needs in this area completely discussed. Price 25c Each

LILLY Fresh SEEDS

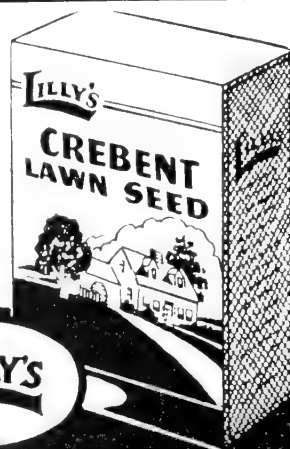


Over 62 years of constant seed research and development is your assurance of the finest vegetable or flower seed obtainable. That's why more and more garden growers are asking for LILLY'S "Trial Ground Tested" seed.

Your Lawn Can Only Be As Good As The Seed You Sow!

PLANT THE BEST

Especially blended for Pacific Northwest climate and soils. A balanced blend of only fine leaved grasses, chosen to give staggered dormancy, long-lasting, velvet green beauty.



CREBENT Lawn Seed



Make Valuable ORGANIC MANURE



Compost making is easy with COMPO . . . the "self-starter" turns grass clippings, leaves, garden and kitchen refuse into rich, organic manure. Compost is rich in all the elements necessary to sturdy, healthy plant growth. Simple directions on the convenient COMPO package.

COMPO

5 LBS...65¢

A HIGH GRADE COMPOSTING MATERIAL

MORCROP FERTILIZER

—with an ORGANIC Base!

An "All Purpose Fertilizer" for general use on lawns, and flower and vegetable beds. For best results apply Spring, early Summer and Fall.

5 lbs.....	.40
10 lbs.....	.75
25 lbs.....	1.50
50 lbs.....	2.50
100 lbs.....	4.40



Protect Your Garden Against Pest Damage

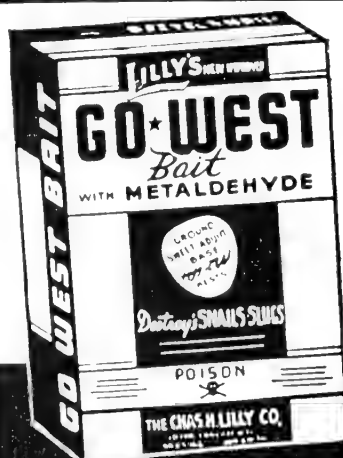
GO-WEST

ATTRACTS AND DESTROYS



Effective RAIN or SHINE! For Snails, Cut Worms, Slugs, Earwigs, Root Weevils and other pests of like chewing habits. Safe, convenient, economical.

1 lb...35
2 1/2 Lbs...65



GO-WEST

APPLE BASE WITH METALDEHYDE

WEED KILLERS

Our weed killer department, as usual, is keeping right up with the times. And that's saying a good deal, nowadays, when miraculous developments in weed killing are coming so fast.

Ever since the new selective weed killers began to appear, we have kept



TRADE MARK

The famous 2,4D weed-killer

Kills Poison Ivy, Poison Oak, Bindweed, Honey-suckle, Dandelion, Plantain, many other noxious weeds. Sprayed on leaves, it travels down and kills internally, right out to the root tips. Sprayed on lawns, it kills lawn weeds *without killing grass*. Safe for humans and animals. Does not hurt the soil or corrode spraying equipment. Just mix with water and spray.

6-ounce can 75c..... covers 1,000 sq.ft.
Quart \$2.50..... covers 5,000 sq.ft.
Gallon \$7.50..... covers 1/2 acre

Larger Quantities on Request

WEEDUST 2.4D

in the ready-to-use can

Kill those here-and-there weeds in your lawn with Weedust, 2.4D in powder form. Just shake directly from the can. No mixing or measuring or spray gun needed.

Big can 75 cents

Enough for 1000 weeds

in close touch with leading authorities on this work. Therefore, we **KNOW** the new weed killers thoroughly, and can safely advise you about their use.

2, 4-D for the farm

Now that practically everybody is using 2,4-D preparations for lawn weed control, the 2,4-D spotlight is centered on farm uses.

Careful tests by Agricultural Experiment Stations have proved that 2,4-D, properly used, is one of the greatest of all recent farm developments. Everywhere, farmers are getting amazing results in time and money savings and increased yields.

We can help any user to plan wisely in using 2,4-D. Just ask us!

Other weed controls, too

For weeds that are not controlled by 2,4-D, we have all the other good killers you need, including:

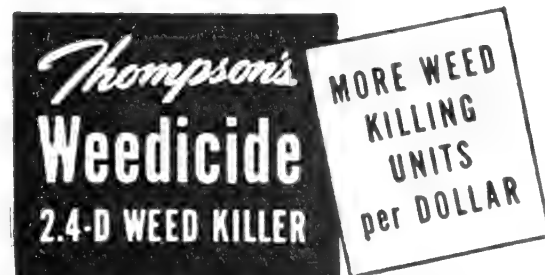
AMMATE WEED KILLER. Effective for control of poison ivy, ragweed, Canada Thistle, and other troublesome weeds.

CRAB GRASS KILLER (Seltox)—A selective Crab Grass Killer (containing PhenolMercuricAcetateSolubilized). The latest step forward in the chemical control of Crab Grass... the most troublesome of lawn weeds. **Seltox** not only kills but retards new Crab Grass growth. **Seltox** can be used any time during the growing season—from "seedling" stage to "mature" growth without harming lawn grasses.

Seltox is economical to use. The 16 oz. size makes 15 to 20 gallons and treats 1,500 to 2,000 square feet. Simply mix with water and apply with watering can or sprayer. (Complete directions on each bottle.)

8 oz., \$1.00; 16 oz., \$1.50; 1 qt., \$2.50;
1/2 gal., \$4.50; 1 gal., \$8.00.

NON-SELECTIVE WEED KILLER (Acme)—A quick acting arsenical product that destroys weeds and all other vegetation. The proper killer for weeds in drive ways, tennis courts, paths, and all areas which must be kept free of plant growth. Creates a sterile soil condition for a long period.



With Weedicide, you get more weed-killing results per dollar! It is more concentrated, has a more dynamic wetting agent, holds contact with plants longer. Kills even such stubborn weeds as the deep-rooted perennials, bindweed, etc. Invaluable for lawns, vacant lots, golf courses. Most economical 2,4D for farms.

LIQUID—2 oz. 25c; 8 oz. \$1.00; 1 qt. (1/4 acre) \$1.75.

LIQUID CONCENTRATE—1 pt. (1/2 acre) \$1.35; 1 qt., \$2.35; 1 gal. \$7.60.

POWDER—8 oz. \$1.00; 1 lb. \$1.50.

Ask for prices and data on larger sizes.



Miller's GARDEN COMPOST MAKER

Converts Rubbish
Into Fertilizer

A five-pound package of Miller's Garden Compost Maker will convert your garden refuse—grass clippings, leaves, weeds, etc.—into several hundred pounds of high-grade, organic humus fertilizer.

5 lbs. . . . 80c

25 lbs. . . . \$2.50

Plus Postage

PET SUPPLIES

Our Pet Supply Department really deserves a whole section of this book for itself. But this is our garden book, so the pets are crowded out.

If you're not already acquainted with our Pet Supply Services, we want you to know this one fact:

This is a good, safe, economical place to get Pet Supplies—because everything we sell is selected with the same care and caution as in our Seed Department. What better assurance could you want than that?



Amazing Relief for TORTURED Dogs and Cats

SKIN ITCH: Don't be too quick to blame fleas, mange, diet, if pets itch—scratch continually. 2 to 1 it's "FUNGITCH," fungus infection discovered by noted veterinarian, Dr. A. C. Merrick. Much like athlete's foot, it itches painfully—soon develops dandruff-like scales or mouldy-smelling brownish-edged sores around tail, on paws, back or underbody. Dr. Merrick's SULFODENE applied externally stops the itching in minutes—clears up scales and sores in a few days. Generous treatment \$1.00.

EAR CANKER: If pet repeatedly rubs ear on floor, etc., shakes head or holds it in stiff, unnatural way, examine ears carefully. If hot—sensitive—musty-smelling, you know it's ear canker (otitis). Apply Dr. Merrick's **EAR CANKER Creme** at once—snip tip off handy gelatin capsule—squeeze Creme into each ear. It contains wonder-drug, Tyrothricin. Works swiftly to relieve pain, remove causes and promote healing of ear canker. All 10 capsules in package seldom needed. Only \$2.00 per package.

INSECTICIDES AND FUNGICIDES

ARSENATE OF LEAD—The standard insecticide for controlling practically all leaf-eating or chewing insects. Spray or dust. 1 to 2 tablespoonfuls make 1 gallon spray.

BLACK LEAF 40. Nicotine Sulphate 40% solution for controlling aphids (plant lice), thrip and other soft bodied sucking insects. 1 teaspoonful makes 1 gallon.

Spray
with
**BLACK
LEAF
40**



Aphids (plant lice), leafhoppers, leaf miners, mealy bugs, lace bugs, most thrips, young sucking bugs and similar insects can be controlled.

An ounce makes 6 gallons of spray effective on aphids. Full directions with package—A quick, sure, economical control for these insect pests.

Just a little spread on roosts kills poultry lice and feather mites.

1 oz. Bottle, 36c; 5 oz. \$1.05; 1 lb. \$2.42; 2 lb. \$3.92; 5 lb. can \$7.40.



**STANLEY'S
CROW
REPELLENT**

Protects Seed Corn

from Crows, Pheasants, Blackbirds, Larks and all other corn-pulling birds and animal pests, such as Moles, Gophers, Woodchucks, Squirrels, etc.

1/2 Pint 1 Pint 1 Quart
—enough for—enough for—enough for
1 bu. seed 2 bu. seed 4 bu. seed

60c \$1.00 \$1.75

Manufactured only by CEDAR HILL
FORMULAE CO., New Britain, Conn.

CALCIUM ARSENATE—Arsenic and lime. A cheap quick-acting poison for potato bugs and other leaf-eating insects.

BORDEAUX MIXTURE. Standard copper fungicide for controlling black spot, mildew, blight, leaf-curl, scab and other fungous diseases on flowers, fruits, vegetables and other plants.

CERESAN—Effective in controlling covered smut and stripe of barley, oat smuts, and bunt or stinking smut of wheat. A pound treats 32 bushels.

CYANOGEN "A" DUST. Calcium cyanide for killing rats, moles, gophers, etc. Gives off deadly gas but leaves no poisonous residue afterwards.

CYANOGEN ANT KILLER—A. Dust. Powder to be blown into ant-hills, etc.

CYANOGEN G. FUMIGANT. The most effective fumigant for greenhouse pests such as white fly, thrips, aphids, etc. Fumigation is started at dark by scattering the Cyanogen on the walks after which the house is closed for the night.

D. X. SPRAY. An economical spray for both sucking and chewing insects. Kills aphids and Mexican bean beetles; harmless to human beings. 1 1/2-oz. bottle, 45c; 8-oz. bottle, \$1.45.

MILDEW SPRAY—A strong liquid spray for control of mildew, leaf spot and black spot on rose bushes, flowers and many other kinds of foliage. Leaves a thin insoluble film of copper, preventing fungous attack, without unsightly residue.

PRUNING PAINT—A specially prepared liquid paint containing copper for treating wounds left by pruning, storms, or accidents, to prevent such diseases as European canker fungus, hard rot, and certain other fungi. Forms a protective shield while the tree is naturally overcoming the shock.

All Prices Subject to
Change Without Notice.
**INSECTICIDE PRICES ARE
NOT POST-PAID. Postage
or Express Charges Extra.**

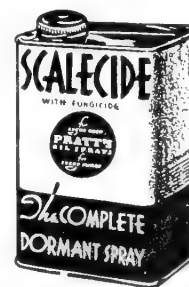
LIME SULPHUR, Liquid—A dormant spray material against scale of all kinds. Dilute with cold water—1 gallon makes 10 gallons of spray.

LIME SULPHUR, Dry—A dormant spray to kill scale or use as a summer spray for control of fungus disease.

PARIS GREEN. An effective insecticide for control of chewing insects, particularly recommended for potato bugs.

POMO-GREEN WITH NICOTINE—A combined insecticide and fungicide for control of black spot and mildew on plants and shrubs, especially Roses. Does not discolor foliage.

RED ARROW GARDEN SPRAY. Concentrated Pyrethrum and Rotenone extract containing soap, spreader and sticker. Harmless to animals.



**THE COMPLETE
DORMANT SPRAY**

Scalecide cleans up overwintering insects on fruit trees, shade trees, shrubs and evergreens. Spray before growth starts in Spring. Qt. cans 85c; Gal. cans \$2.00.

**Kill More Kinds
of Insects**

D-X Spray contains rotenone, pyrethrum and DDT for the best protection the garden has ever had. Spray flowers, fruits, and vegetables. Dilutes 1 to 400, economical. 1 1/2 oz. 40c; 1/2 pint can \$1.50.



Let **ORTHO** simplify
your pest control problems!



PEST-B-GON Insect Spray. Contains 20% DDT. Kills Beetles, Worms, Thrips, Ants, Leafhoppers; also Houseflies (as screen paint), Mosquitoes, Fleas. 4-oz. Bottle, 65¢. 1 Pint, \$2.00

BOTANO Garden Dust. For use against many insects and diseases. Includes Rotenone and Pyrethrum. One of the safest multi-purpose dusts that can be used. 10-oz. size, in handy garden duster. 60¢

A Bouquet and a Brickbat for Man's Best Friend...

Brickbat: SCRAM Dog Repellent, to keep dogs away from shrubs, flowers, lawns, store fronts, porches, etc. Easy to use. Does not harm animals. 8-oz. Shaker, 50¢

Bouquet: ORTHO-PET Flea Powder is a potent flea killer—one or two treatments a month do the trick! Use on cats, too.

1 1/2-oz. Puffer Package, 35¢

NOTE—Shipping costs are extra on all Garden supply items.

ANTS DRIVING YOU CRAZY? ANT-B-GON'S the answer! Four to eight dispensers are enough for average home. Easy to refill. Ants feed from "wick"... can't get inside. For Argentine and Sweets-eating ants. Set of four 1-oz. Dispensers, 70¢. Ant poison to refill dispensers: 4-oz. Bottle, 25¢. 1 Pint, 60¢

ORTHO Garden Spray Set. For use against more prevalent Garden Insects.

Set contains 4-ounce bottle of EXTRAX Insect Spray, GREENOL Liquid Fungicide and VOLCK Oil Spray. Makes 25 gals. Multi-Purpose Spray, \$1.85

APPO Cutworm Bait. A new poisoned Apple bait. Kills Cutworms, Strawberry Root Weevil; also Vegetable Weevil, Slugs, Snails. 1-lb. Carton, 45¢

ORTHO Rose Dust. Complete rose and flower garden dust. 8 oz., \$1.00 — 1 lb., \$1.25



Ask for a free copy
of our complete pest
control chart

SCALECIDE. Reliable spray for scale and soft-bodied sucking insects. A soluble miscible oil that mixes instantly with cold water.

SEMESAN. Effective in controlling damping-off, scab, hard rot, etc.

SEMESAN BEL. For use on potatoes. Controls such seed-borne disease organisms as scab, rhizoctonia, and black-leg. One pound treats 60 to 80 bushels of seed.

SULPHUR, DUSTING. For controlling powdery mildew, blight, black spot, rust and most rose diseases.

SULPHUR, WETTABLE. An improved sulphur which can also be used as a

liquid spray. 98% passes through 325 mesh screen.

TRI-GEN SPRAY. Three way treatment for roses and most vegetable plants. Used and highly recommended by leading rosarians. Controls insects and fungus, assuring healthy, strong and vigorously blooming roses.

MISCELLANEOUS

CHAPERONE, LIQUID. Outdoor dog repellent that won't dissolve in rain. Harmless, long lasting. Ends the dog nuisance in your garden.

CHAPERONE, POWDER. Indoor dog repellent, that keeps your dog off furniture. Almost odorless to humans. A fine help in training your dog.

NEW CONTROL FOR SOIL INSECTS and Fairy Ring

CX, the New compound of Hexachlorocyclohexane and Carco Spray, takes care of an amazing range of pests, including some that no other insecticide handles as well. CX is a sure control for root maggots and other soil insects . . . eradicates "Fairy Ring" and many other insects. Also a perfect defense against moss scale and lichens, making a perfect dormant spray for shrubs and trees. Shrubs drenched with CX in late winter or early spring are often completely rejuvenated. Tests checked by competent entomologists fully support these statements. CX is easy to use, too! Just a sprinkling can or even a cup does the job, if no sprayer is available. Quart (makes 25 gal. of spray), \$1.95; Gallon, \$4.95. Larger quantities, on request.

CX

D. D. T. PRODUCTS for Farm and Garden

DURADUST No. 50

Contains 50% Wettable DDT

The strongest, finest DDT powder science has yet been able to produce! Duradust No. 50 is toxic when eaten by the insect or when it comes in contact with the insect's legs or body. Its killing power endures. FOR CROP SPRAYING OR DUSTING—controls codling moth, oriental fruit moth, leaf hopper, flea beetle, psyllid, potato bug, potato aphid, plant bug, Jap beetle, cabbage worm, caterpillar, thrip, rose chafer, and many others. Suitable for all plants except vine crops. FOR LAWN SPRAY—controls cutworms, ants, earwigs, sow bugs, chinch bugs. FOR WALL SPRAY—most economical in barns, milk houses, hog sheds, etc. Also excellent FOR CATTLE SPRAY, DIP, OR DUST. 1 lb., 90c; 4 lbs., \$2.25; 50 lbs., \$26.80.



RED RIVER POTATO MIX

Contains 9.5% Wettable DDT, 15.1% Metallic Arsenic, 25.7% Metallic Copper. For years the recognized leader, now even better. Shows 25% and more increases in yield when compared to older methods in repeated tests. Controls all insects which eat the leaves, suck sap, irritate leaf surfaces or cause disease infection. Acts as a stomach poison and by contact. High copper content gives better blight prevention, produces green, healthy foliage. Use as spray or as dust. 1 lb., 55c; 4 lbs., \$1.75.

ACME GARDEN DUSTS AND SPRAYS

ACME ALL ROUND SPRAY

For roses, azaleas, other flowers, shrubs, vegetables, vines. A new, modern, carefully formulated multi-purpose product designed to provide with one application the best available protection against both insects and fungi such as rose chafer, azalea flower spot, thrip, black spot, downy mildews, leaf spot, many rusts, Japanese beetle, leafhopper, flea beetle, aphids, cabbage



worm and many others. Suitable for dusting as well as spraying. 1 lb. Carton 95c; 4 lb. Carton \$3.35.

ACME TOMATO DUST

A general garden insecticide and fungicide with special emphasis on complete tomato protection. Controls early and late blight as well as horn worm, fruit worm and flea beetle on tomatoes as well as on cucumbers, beans, cabbage, potatoes and many flowers such as hollyhocks, asters, roses, azaleas, etc. 1 lb. sifter, 50c; 4 lb. pkg., \$1.05; 50 lbs., \$11.00.



ACME ROTENONE GARDEN GUARD

Controls the widest variety of chewing and sucking insects of any insecticide on the market today. Non injurious to humans, pets and animals. Use as dust or spray to control aphids, bean beetles, asparagus beetles, horn worm, tarnish plant bug, cabbage worms, current worms, rose caterpillars, blister beetles and other common insects. 4 lb. pkg., \$1.25; 50 lb. bag, \$13.30.



ACME EMO-NIK

A complete contact insect spray combining active nicotine with a high quality summer oil emulsion. Excellent in control of scale, red spider, mealy bug, white flies, rust mites, aphids, mildew and similar garden pests. Practically odorless when sprayed. 4 1/2 oz. 37c.



ACME WETTABLE DUSTING SULPHUR

Controls mildew, leaf spot, black spot and rust on roses, chrysanthemums, snapdragons, carnations and other foliage and red spiders on evergreens. Use as a dust or spray. Also excellent as a chigger repellent. 2 lbs., 42c.

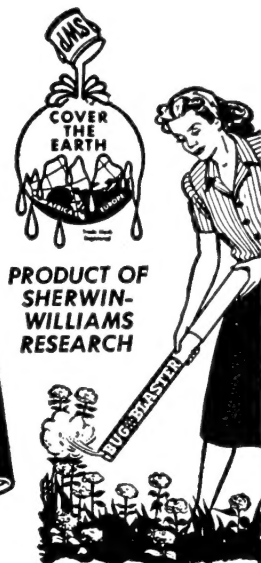


STOP GARDEN BUGS

This Sure, Easy Way

This amazing new tool for home gardeners will protect your garden against most insects and fungus diseases. The handy, 36" Bug Blaster gun is loaded with 2 lbs. of dust, ready to use on your flowers and vegetables. Formula contains DDT, Rotenone, Sulfur, etc.

- No Mixing
- No Stooping
- No Bother



Controls Aphid, Thrip, Rose Chafer, Japanese Beetle, Mexican Bean Beetle, Cabbage Worm, Tomato Fruit Worm, and many others.

ONLY
\$1.98
COMPLETE

BUG BLASTER

DUST & GUN... ALL-IN-ONE

GARDEN TOOLS

The next time you get into your tool shed or garage, or wherever you keep your garden tools, look them over! Try to remember how long it has been since you first brought them home. Then—if you want a real thrill—come into our store and see what the modern tool designers have done for you!

Here is a very brief outline of tools now available. But, better yet, come in and see for yourself.

CULTIVATORS, Speedy—4 sharp curved tines, 4 1/3 ft. handle.

Norcross—Adjustable steel teeth.

Hand Cultivator Weeder—3 or 5 prong.

FORKS, Spading—4 tines, D handle, light and heavy weight.

Hay Fork—Bent handle, 3 or 4 tines.

HOOKS, Grass (Sickles)—Various styles, well balanced designs. Wood handles.

Potato Hooks—4 broad tines, tumbled.

SHEARS, Grass—Pinch-proof handles.

Hedge Shears—8 or 9 inch blades.

HOES, Field or Garden—Various styles.

Onion Hoe—Square top pattern.

Scuffle Hoe—8 inch blade; straight handle.

Warren Hoe—Pointed steel head.

KNIVES, Asparagus—10" with V-shaped point.

Budding, Propagating, and Pruning Knives. See our selection.

Edging Knife—Half-moon blade.

SCYTHES, Grass, Weed and Bush—Best crucible steel. Visit our display!

SHOVELS, Square Point—Long and D handles.

Round Point Shovel—Long D handle.

RAKES, Steel, Curved Tooth—Straight handles; teeth on head 1/4" thick.

Steel, Straight Tooth Rakes—Level head.

Wood Rakes—Rigid and strong.

Bamboo Rakes—Fan shaped, strongly made.

Steel-Broom-Rake—Flat, spring-steel teeth.

PRUNERS, Tree—8 ft., 10 ft., 12 ft.

Pruning Shears—Again available in several styles.

Flower Gathering Shears—They cut the stem and hold the flower for you.

SPADES, Square Point—Flat blade, D handle.

TROWELS, All-Steel Garden—Made of one piece of rigid steel; shaped ventilated handle.

Transplanting Trowel—6" blade of solid steel.

WEEDERS, Hand—3 steel prongs; short handle.

Lawn Weeder—Curved forged-steel blade.

Weeder and Hoe Combined—A labor saver.

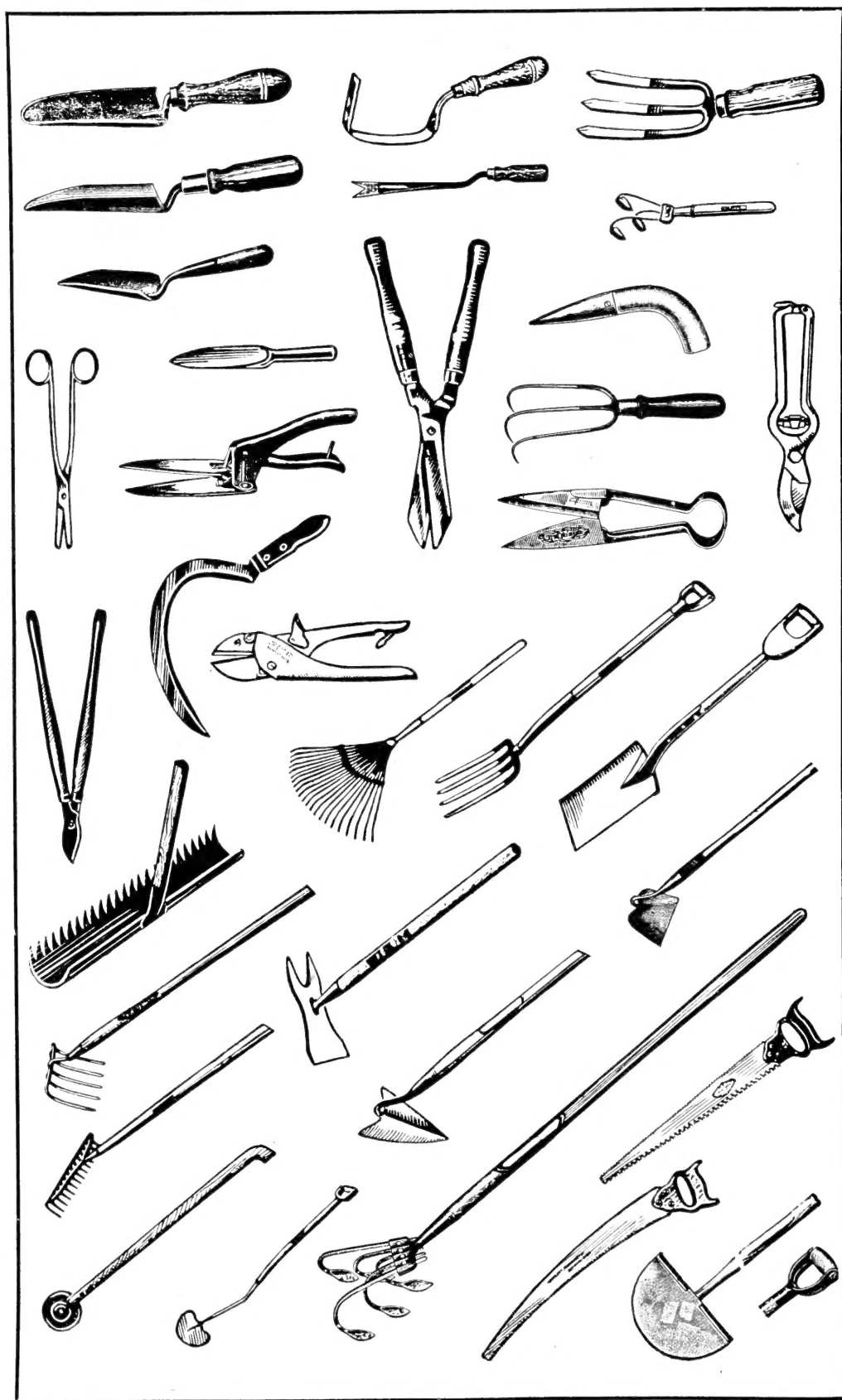
Dandelion Weeder—V-shape design.



The modern, easy **INSECT CONTROL**

Your garden hose is your insecticide sprayer, when you use an **ARNOLD!** Just attach this highly efficient mixing and spraying device in place of your regular hosenozzle—turn on water and spray anywhere from 3 to 25 feet. Cartridges fit into chamber and dissolve slowly, as water passes thru, giving you the correct control solution. No pumping, no guesswork. Thousands in use nationally. Sprayer, \$5.50; cartridges, 35c or 12 for \$4.00. (A product of the Garden Hose Spray Co., Inc., Cambridge, Mass.)

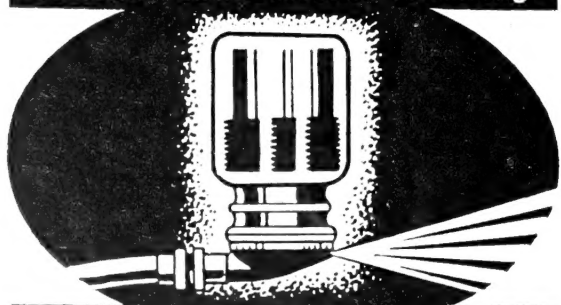
IN THE GARDEN, AS IN THE SHOP
a good workman deserves good tools!



Famous No. 99
AEROIL
FLAME GUN
Kills all weeds
with fire

Endorsed by leading agricultural authorities. 2000° F. flame kills stalks, seeds and roots. Destroys insects, cracks rocks, burns out stumps . . . 99 other uses. Burns only 6% kerosene and 94% air. OUTFIT INCLUDES 4 gal. all-welded tank, brass pump, 60 lb. air gauge, 7' oil resisting hose, bronze valve, and seamless steel removable coil burner. Nothing else to buy. Guaranteed for a full year. (Spray attachment if desired, \$3.50 extra.) PRICE AEROIL No. 99 SENIOR FLAME GUN, \$22.

Greener Lawns...Less Watering



**FERTILIZING WITH
GAT SPRAYER**

NO BURNING • NO ODORS
NO WASTE \$1.45 GLASS JAR
NOT INCLUDED

NOTE—Shipping costs are extra on all Garden supply items.



Easy to use . . . Efficient
SPRAYERS and DUSTERS
The finest money can buy!



HUDSON LEADER No. 192G

A full 3 1/2-gallon capacity sprayer with malleable screw cap and funnel-top. Large capacity and high pressure adapt it for all work. Locks open for continuous spraying. Seams rivetted and soldered. Top and bottom double beaded. Tested at 100 lbs. pressure.

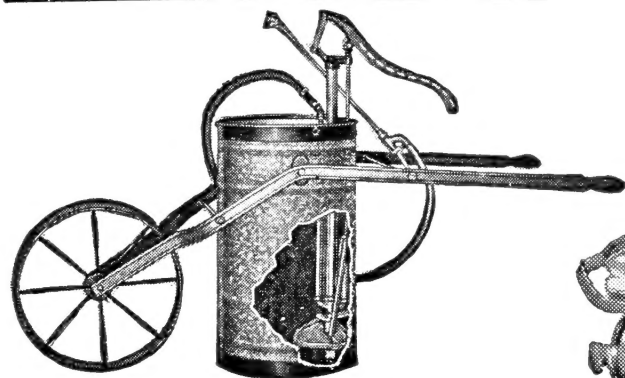
HUDSON PERFECTION No. 210G

A 4-gallon open top sprayer. Big 6-inch opening insures easy filling, emptying or cleaning. Drains completely dry. Shut-off valve locks open for continuous spraying. Unusually large capacity and high pressure fit it for any job.



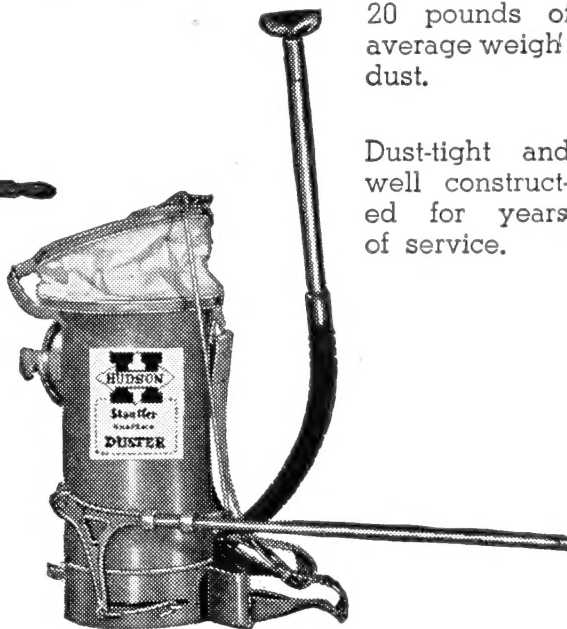
Ask us about other sprayers for the garden, farm, orchard, or other special purposes.

HUDSON STAUFFER KNAPSACK DUSTER No. 1A—For field, vineyard, orchard or nursery. Bellows type for "puff" or "blast" dusting. Holds 18 to 20 pounds of average weight dust.



HUDSON SUNSHINE WHEELBARROW SPRAYER No. 36

Has 12 1/2 gallon capacity, develops 150 pounds nozzle pressure. For truck gardens, greenhouses, orchards and nurseries. Compact. Non-clogging intake strainer. No. 36R—with rubber tire.



Dust-tight and well constructed for years of service.



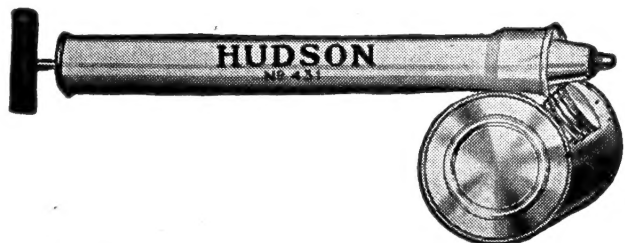
HUDSON ADMIRAL DUSTER No. 766

Big capacity hand duster with 24-inch extension. Adjustable directional nozzle. Easy to fill. Discharge ranges from very fine to a heavy cloud. For small and medium size gardens.



MISTY NO-DRIP No. 403

Universal favorite for around house, yard, garden or poultry house. Full-quart capacity. Drip cup prevents overflow. Point of pump passes through top of tank insuring strength and positive alignment.



HUDSON COMET No. 431

Easy action continuous sprayer for controlling flying and crawling insects for stock dips. And similar preparations in the dairy barn, poultry house, hog pen, etc., and for garden and household use.

PEST EXTERMINATORS

"Their Last Meal"

ANT-X JELLY BAIT (Thallium)—For destroying all species of ants—SIMPLE TO USE—Not a repellent but a food bait that ants eat and carry back to the nest. Destroys entire colony. "THEIR LAST MEAL." 35c and \$1.00 sizes.

ANT-X ANT TRAPS (Thallium)—A safe, sanitary method for controlling ants in house and garden. Attracts and destroys both sweet and grease-eating ants. Cannot be opened by children or spilled by pets. May be placed inside ice-boxes or other food containers without contaminating foods. "THEIR LAST MEAL." 25c.

RAT-NOTS—A non-poisonous prepared bait containing genuine RED SQUILL. Safe, sanitary! Rats are attracted to RAT-NOTS because of their tempting odor. "THEIR LAST MEAL." 25c and \$1.00.

RAT-TU . . . contains Antu, the marvelous new rat killer.

Here are two remarkable new poisons, both made with the recent discovery, Antu, most successful rat poison ever made available:

RAT-TU with 25% Antu, for tracking—sprinkle it in runways and burrows. Rats track through it and are fatally poisoned when they lick their feet, 60c.

RAT-TU with 5% Antu, for baiting—use it in their drinking water or for bait. Sifter-top can, 35c.

MOUSE-NOTS—Easily hulled, treated seed bait, appeals to the finicky taste of mice. Spread in places mice frequent. "THEIR LAST MEAL." 25c and \$1.00 sizes.

MOLE-NOTS—Life-saver for lawns, flower and seed beds. Sure death to bulb-eating, root-destroying moles. Safeguards bulbs at time of planting. "THEIR LAST MEAL." 35c and \$1.00 sizes.

NOTT'S ANTU RAT PASTE (5% Antu)—For big, well-fed, hard-to-catch rats which dodge cats and traps, and are finicky in their eating habits. "THEIR LAST MEAL." Handy tubes, 35c and \$1.00.

DOG-CHECK—An effective proven curb to canine habits, needed by all whose neighbor's dogs "visit" and wither flowers, shrubs, hedges. One spraying usually lasts two to three weeks—unaffected by light rains. 60c and \$1.00 sizes.

WEED-NOTS

Containing Sodium Salt Monohydrate of 2-4-D packaged in the popular "Not" form. Drop one "Not" in 1 1/2 quarts of water and you have an excellent hormone weed killer.

BAND-DIT

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SAVES PRECIOUS TREES

ALL PREPARED AND EASY TO APPLY—A SIMPLE METHOD OF BANDING TREES



A STICKY BAND WITH DDT

FOUR CONVENIENT LENGTHS

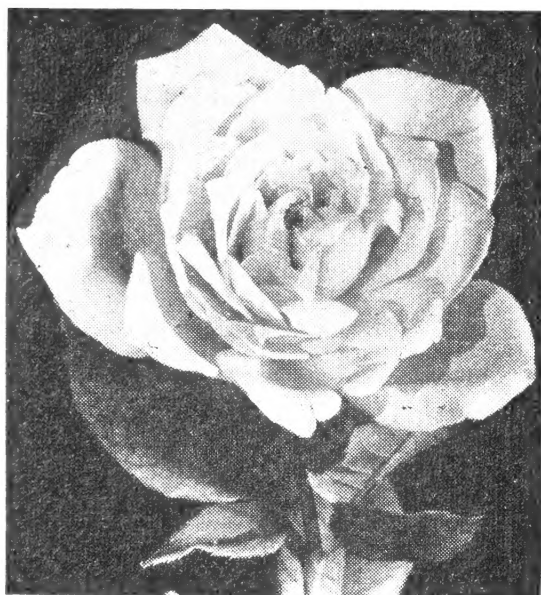
2 FT. TREES UP TO 7 1/2" IN DIAMETER - 50c

3 1/2 FT. TREES UP TO 13" DIAMETER - 75c

5 FT. TREES UP TO 19" IN DIAMETER - \$1.00

8 FT. TREES UP TO 31" IN DIAMETER - \$1.25

Made by Universal Tree Band Co., St. Paul, Minn.



NORTHWEST GROWN PREMIUM BRAND ROSES

Though all of our roses come to us from a dependable northwest grower, we select and choose each plant very carefully to make absolutely certain that our stock includes nothing but the best. This is our way of assuring you of the greatest satisfaction and pleasure.

Space here permits only a partial listing of the many varieties we have available. Please contact us if you do not find listed the particular variety you want.

CALIFORNIA (Pat 449) Bronze-apricot.....Ea. \$1.50

FRED EDMONDS (Pat 731) Reddish-apricot aging to orange-pinkEa. 1.50

GRAND DUCHESS CHARLOTTE (PP) Tomato-redEa. 1.50

HEART'S DESIRE (Pat 501) Luminous red, Ea. 1.50

KATHERINE T. MARSHALL (Pat 607) Pink suffused with goldEa. 1.50

MANDALAY (PAF) YellowEa. 1.50

PANORAMA (Pat 614) Yellow suffused with pinkEa. 1.50

RUBAIYAT (PAF) Rich crimson to red-rose, Ea. 2.00

SATURNIA (Pat 349) Cardinal-red. Salmon-yellow and copper on reverseEa. 1.50

SONATA (Pat 732) Brilliant pinkEa. 1.50

SWEET SIXTEEN (Pat 631) Light pink with touch of gold at base of petalsEa. 1.50

FLORIBUNDAS

DONALD PRIOR (Pat 377) Sparkling red....Ea. 1.25

FLORADORA (PP) Cinnabar-red touched with orange-scarlet and geraniumEa. 1.50

HOLSTEIN (Pat 395) Striking redEa. 1.25

CLIMBERS

BLAZE (Pat 10) Brilliant scarletEa. 1.50

KING MIDAS (Pat 586) Deep gold to clear, unfading yellowEa. 1.50

Old Favorites

ETOILE de HOLLANDE—Bright red

EDITH NELLIE PERKINS—Coppery-rose

EDITOR McFARLAND—Clear pink

JOANNA HILL—Pale yellow

Mc GREDY'S YELLOW—Bright yellow

MRS. P. S. Du PONT—Deep yellow

SISTER TERESE—Daffodil yellow

CONDESA de SASTAGO—Copper and gold

HINRICH GAEDE—Vermilion and yellow

TALISMAN—Blends of gold, apricot and carmine

FRAU KARL DRUSCHKI—Snowy white

Mc GREDY'S IVORY—Creamy white

CECILE BRUNNER—Clear pink

GARDENIA—(climber) Yellow

PAUL'S SCARLET—(climber) Scarlet

PRESIDENT HOOVER—(climber) Bi-color

SPECIAL ... EA. \$1.15

\$1.25 POSTPAID

SEATTLE SEED CO.

Seattle's Seed Store—Everything for The Garden

1514 SECOND AVE., SEATTLE 1, WASHINGTON

PHONE: SE 2338

